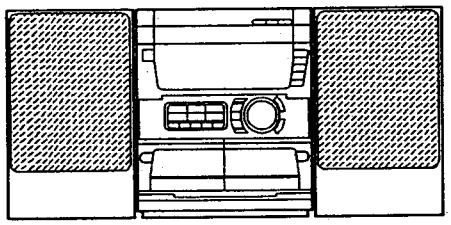
aiwa

aiwa SERVICE

NSX-A71
NSX-S70
NSX-S74



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM
- BASIC CD MECHANISM : 4ZG–1 Z1DNM
- TYPE : 71U, 70LH, 74LH

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-A71	CX-NA71 (TYPE : U)	SX–FNA71	RC - 7AS08
NSX-S70	CX-NS70 (TYPE : LH)	SX–ANS70	
NSX-S74	CX-NS74 (TYPE : LH)	SX–NS74 SX–R240	

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No. 09-974-187-50T. **(=VIDE-V18295)**
- If requiring information about the Speaker, see Service Manual of SX-FNA71, SX-ANS70, SX-NS74, SX-R240. S/M Code No. 09-974-182-6FP.

SERVICE MANUAL

S/M Code No. 09–973–182–5FP

SPECIFICATIONS

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<MW Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 uV/m
Antenna	Loop antenna

<Amplifier section>

Power output	71U : Rated 100 W + 100 W (50Hz - 20kHz, T.H.D. less than1%, 6 ohms) 70LH, 74LH : Rated 150 W + 150 W (6 ohms, T.H.D. 10%, 1kHz)
Total harmonic distortion	71U : 0.05% (90 W, 1 kHz, 6 ohms, DIN AUDIO) 70LH, 74LH : 0.05% (110 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 210 mV(adjustable) MD : 210mV (adjustable) MIC 1,MIC 2: 1.4mV (10 kohms)
Outputs	LINE OUT: 200mV 71U : SUPER WOOFER: 2.4 V 70LH, 74LH : SUPER WOOFER: 2.7 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CRo_2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz –15000 Hz
Singnal-to noise ratio	60 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Deck 1 : playback head x 1 Deck 2 : Recording/Playback/ erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX–FNA71 (For NSX-A71)>

Cabinet type	3 way, bass reflex with surround speaker (magnetic shielded type)
Speakers	Woofer : 160 mm ($6^3/_8$ in.) cone type Tweeter : 80 mm ($3^1/_4$ in.) cone type Super tweeter: 20 mm ($^{13}/_{16}$ in.) ceramic type Surround speaker : 80 mm ($3^1/_4$ in.)
Impedance	Front speaker : 6 ohms Surround speaker : 16 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	250 x 304 x 288mm ($9^7/_8$ x 12 x $11^3/_8$ in.)
Weight	3.6 kg (7 lbs 15 oz.)

<Speaker system SX–ANS70 (For NSX-S70)>

Cabinet type	4 way, bass reflex with surround speaker (magnetic shielded type)
Speakers	Woofer : 160 mm cone type Tweeter : 50 mm cone type Super tweeter : 20 mm ceramic type Cardioid speaker : 80 mm cone type Surround speaker : 80 mm
Impedance	Front speaker : 6 ohms Surround speaker : 16 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	250 x 310 x 280 mm
Weight	4.5 kg

<Speaker system SX–NS74 (For NSX-S74)>

Cabinet type	3 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 160 mm cone type Tweeter : 80 mm cone type Super tweeter: 20 mm ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	243 x 304 x 227mm
Weight	3.6 kg

<General>

Power requirements	71U : 120 VAC, 60 Hz 70LH, 74LH : 120 V/220-230V/240 V AC switchable, 50/60 Hz
Power consumption	71U : 115 W 70LH, 74LH : 170 W
Dimensions of main unit (W x H x D)	71U : 260 x 309 x 362.5 mm ($10^1/_4$ x $12^1/_4$ x $14^3/_8$ in.) 70LH, 74LH : 260 x 309 x 363 mm
Weight of main unit	71U : 8.5 kg (18 lbs 12 oz.) 70LH, 74LH : 9 kg

- Design and specifications are subject to change without notice.

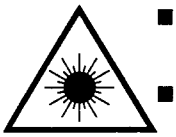
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
  "DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

- The word "BBE"and the "BBE symbol" are trademarks of BBE Sound, Inc.
  Under license from BBE Sound,Inc.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

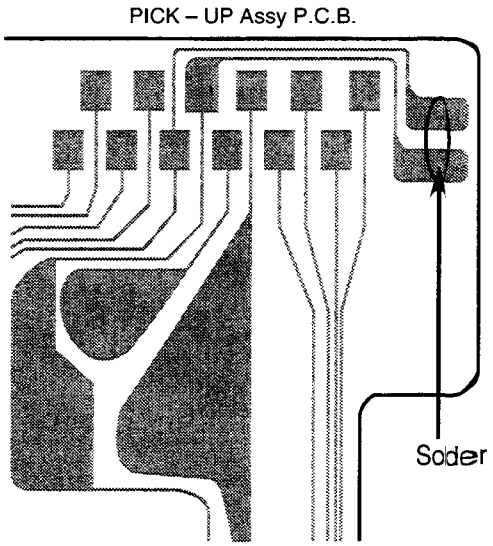
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block

(KSS-213B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use the clothes do not touch the diode.

1) After the connection, remove solder shown in figure below.



ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-020-454-010		IC,DN6851
	87-NF4-641-010		IC,LC866548V-5E15
	87-A20-448-010		IC,PIC-21043TE3
	87-A20-455-010		IC,HA12211
	87-A20-355-010		IC,CXA1553P
	87-A20-083-010		IC,BA3835S
	87-A20-450-040		C-IC,BH3864F
	87-A20-056-010		IC,BA3880S
	87-A20-451-040		C-IC,BU9262FS
	87-A20-456-040		C-IC,BH3810FS
	87-017-888-080		C-IC,NJM4558MD
	86-NFZ-655-010		IC,LC72131D(Z)
	87-A20-438-010		IC,LA1837
TRANSISTOR			
	87-026-263-080		C-TR,RN1410
	89-213-702-010		TR,2SB1370E
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-026-610-080		TR,KTC3198GR
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-085-070		C-TR,CSA1362GR
	87-A30-083-080		TR,CSD1489B
	87-A30-084-080		TR,CSB1058B
	87-A30-071-080		C-TR,RT1N 144C
	87-026-609-080		TR,KTA1266GR
	87-A30-086-070		C-TR,CSD1306E
	87-A30-106-070		C-TR,CMBT5551
	87-A30-111-080		TR,C2N5401
	87-A30-097-010		TR,FN1016
	87-A30-098-010		TR,FP1016
	87-A30-089-010		FET,2SK2723
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-087-080		C-FET,2SK2158
	87-A30-074-080		C-TR,RT1P 141C
	89-327-143-080		C-TR,2SC2714(O)
DIODE			
	87-017-654-060		DIODE,GBU6JL6131
	87-017-437-080		DIODE,1N4148M
	87-A40-269-080		C-DIODE,MC2836
	87-A40-270-080		C-DIODE,MC2838
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-205-080		ZENER,UZ6.2BSC
	87-A40-211-080		ZENER,UZ36BSA
	87-A40-206-080		ZENER,UZ10BSC
	87-A40-202-080		ZENER,UZ5.1BSB
	87-A40-184-090		DIODE,RK34(F)
	87-A40-246-080		DIODE,1N4148T-72
	87-017-481-080		ZENER,UZ-5.6BSB
	87-A40-192-080		ZENER,UZ4.3BSA
	87-A40-239-080		ZENER,UZ5.6BSA
MAIN C.B			
C101	87-A10-059-090		CAP,E 3300-75
C102	87-A10-059-090		CAP,E 3300-75
C103	87-016-658-090		CAP,E 4700-35 M SMG
C104	87-016-658-090		CAP,E 4700-35 M SMG
C105	87-012-368-080		C-CAP,S 0.1-50 Z F
C106	87-012-368-080		C-CAP,S 0.1-50 Z F
C107	87-012-368-080		C-CAP,S 0.1-50 Z F
C108	87-012-368-080		C-CAP,S 0.1-50 Z F
C109	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C110	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C111	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C113	87-010-247-080		CAP,E 100-50 M SME<71U>
C113	87-010-408-080		CAP,E 47-50 SME<74LH,70LH>
C116	87-010-247-080		CAP,E 100-50 M SME<71U>
C116	87-010-408-080		CAP,E 47-50 SME<74LH,70LH>
C117	87-010-430-080		CAP,E 100-63
C118	87-010-263-080		CAP,E 100-10 SME
C119	87-010-260-080		CAP,E 47-25 SME
C120	87-010-403-080		CAP,E 3.3-50 M SME
C121	87-012-140-080		C-CAP,S 470P-50 J CH
C122	87-010-263-080		CAP,E 100-10 SME<71U>
C123	87-010-382-080		CAP,E 22-25 M SME
C124	87-010-112-080		CAP,E 100-16 M SME
C125	87-010-235-080		CAP,E 470-16 SME
C129	87-010-393-080		CAP,E 100-35 M SME
C201	87-010-400-080		CAP,E 0.47-50 M SME
C202	87-010-400-080		CAP,E 0.47-50 M SME
C205	87-010-181-080		C-CAP,S 1800P-50 K B
C206	87-010-181-080		C-CAP,S 1800P-50 K B
C207	87-010-404-080		CAP,E 4.7-50 M SME
C208	87-010-404-080		CAP,E 4.7-50 M SME
C209	87-010-404-080		CAP,E 4.7-50 M SME
C210	87-010-404-080		CAP,E 4.7-50 M SME
C211	87-010-186-080		C-CAP,S 4700P-50 K B
C212	87-010-186-080		C-CAP,S 4700P-50 K B
C213	87-010-260-080		CAP,E 47-25 SME
C214	87-010-260-080		CAP,E 47-25 SME
C215	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C219	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<71U>
C219	87-012-368-080		C-CAP,S 0.1-50 FZ<74LH,70LH>>
C220	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<71U>
C220	87-012-368-080		C-CAP,S 0.1-50 FZ<74LH,70LH>>
C221	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<71U>
C221	87-012-368-080		C-CAP,S 0.1-50 FZ<74LH,70LH>>
C222	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<71U>
C222	87-012-368-080		C-CAP,S 0.1-50 FZ<74LH,70LH>>
C223	87-010-194-080		C-CAP,S 0.047-25 Z F
C225	87-010-322-080		C-CAP,S 100P-50 J CH
C226	87-010-322-080		C-CAP,S 100P-50 J CH
C242	87-010-406-080		CAP,E 22-50 M SME
C243	87-010-197-080		C-CAP,S 0.01-25 K B
C244	87-010-406-080		CAP,E 22-50 M SME
C301	87-010-318-080		C-CAP,S 47P-50 J CH
C302	87-010-318-080		C-CAP,S 47P-50 J CH
C303	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C304	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C305	87-012-145-080		C-CAP,S 270P-50 J CH
C306	87-012-145-080		C-CAP,S 270P-50 J CH
C307	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C311	87-010-198-080		C-CAP,S 0.022-25 K B
C312	87-010-198-080		C-CAP,S 0.022-25 K B
C313	87-010-180-080		C-CAP,S 1500P-50 K B
C314	87-010-180-080		C-CAP,S 1500P-50 K B
C315	87-010-178-080		C-CAP,S 1000P-50 K B
C316	87-010-178-080		C-CAP,S 1000P-50 K B
C317	87-012-142-080		C-CAP,S 0.33-16 Z F
C318	87-012-142-080		C-CAP,S 0.33-16 Z F
C319	87-012-141-080		C-CAP,S 0.22-16 Z F
C320	87-012-141-080		C-CAP,S 0.22-16 Z F
C321	87-012-141-080		C-CAP,S 0.22-16 Z F
C322	87-012-141-080		C-CAP,S 0.22-16 Z F
C324	87-010-260-080		CAP,E 47-25 SME
C325	87-010-370-080		CAP,E 330-6.3 M SME
C327	87-010-404-080		CAP,E 4.7-50 M SME
C328	87-010-404-080		CAP,E 4.7-50 M SME
C332	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C335	87-010-401-080		CAP,E 1-50 M SME
C336	87-010-401-080		CAP,E 1-50 M SME
C337	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C339	87-010-196-080		C-CAP,S 0.1-25 Z F C2012

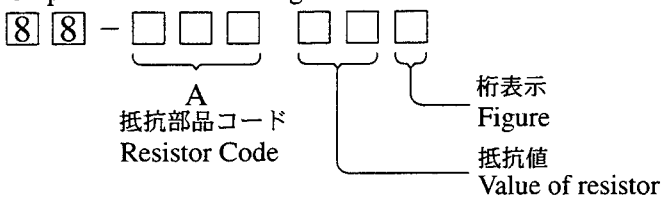
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C340	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C351	87-012-140-080		C-CAP,S 470P-50 J CH
C352	87-012-140-080		C-CAP,S 470P-50 J CH
C354	87-010-175-080		C-CAP,S 560P-50 J SL
C355	87-010-178-080		C-CAP,S 1000P-50 K B
C356	87-010-260-080		CAP,E 47-25 SME
C357	87-010-197-080		C-CAP,S 0.01-25 K B
C358	87-010-183-080		C-CAP,S 2700P-50 K B
C359	87-010-183-080		C-CAP,S 2700P-50 K B
C360	87-010-183-080		C-CAP,S 2700P-50 K B
C370	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C371	87-010-179-080		C-CAP,S 1200P-50 K B
C372	87-010-179-080		C-CAP,S 1200P-50 K B
C373	87-010-179-080		C-CAP,S 1200P-50 K B
C374	87-010-179-080		C-CAP,S 1200P-50 K B
C375	87-010-545-080		CAP,E 0.22-50 M SME
C376	87-010-545-080		CAP,E 0.22-50 M SME
C378	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C381	87-010-197-080		C-CAP,S 0.01-25 K B
C382	87-010-318-080		C-CAP,S 47P-50 J CH
C383	87-010-197-080		C-CAP,S 0.01-25 K B
C384	87-010-402-080		CAP,E 2.2-50 M SME
C385	87-010-184-080		C-CAP,S 3300P-50 K B
C386	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C388	87-010-154-080		C-CAP,S 10P-50 D CH
C401	87-010-187-080		C-CAP,S 5600P-50 K B
C402	87-010-187-080		C-CAP,S 5600P-50 K B
C403	87-010-405-080		CAP,E 10-50 M SME
C404	87-010-405-080		CAP,E 10-50 M SME
C405	87-010-260-080		CAP,E 47-25 SME
C406	87-010-101-080		CAP,E 220-16 SME
C407	87-010-188-080		C-CAP,S 6800P-50 K B
C408	87-010-188-080		C-CAP,S 6800P-50 K B
C409	87-012-140-080		C-CAP,S 470P-50 J CH
C410	87-012-140-080		C-CAP,S 470P-50 J CH
C411	87-010-197-080		C-CAP,S 0.01-25 K B
C412	87-010-197-080		C-CAP,S 0.01-25 K B
C413	87-010-195-080		C-CAP,S 0.068-25 Z F C2012
C414	87-010-195-080		C-CAP,S 0.068-25 Z F C2012
C415	87-010-404-080		CAP,E 4.7-50 M SME
C416	87-010-404-080		CAP,E 4.7-50 M SME
C417	87-010-404-080		CAP,E 4.7-50 M SME
C418	87-010-404-080		CAP,E 4.7-50 M SME
C421	87-010-401-080		CAP,E 1-50 M SME
C422	87-010-401-080		CAP,E 1-50 M SME
C516	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C605	87-010-180-080		C-CAP,S 1500P-50 K B
C606	87-010-180-080		C-CAP,S 1500P-50 K B
C611	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C613	87-010-404-080		CAP,E 4.7-50 M SME
C614	87-010-404-080		CAP,E 4.7-50 M SME
C615	87-010-183-080		C-CAP,S 2700P-50 K B
C619	87-010-263-080		CAP,E 100-10 SME
C620	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C621	87-010-263-080		CAP,E 100-10 SME
C622	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C623	87-010-194-080		C-CAP,S 0.047-25 Z F
C629	87-012-368-080		C-CAP,S 0.1-50 FZ<74LH,70LH>
C646	87-010-322-080		C-CAP,S 100P-50 J CH
C647	87-010-322-080		C-CAP,S 100P-50 J CH
C701	87-010-381-080		CAP,E 330-16 SME
C702	87-010-404-080		CAP,E 4.7-50 M SME
C703	87-010-197-080		C-CAP,S 0.01-25 K B
C704	87-010-197-080		C-CAP,S 0.01-25 K B
C711	87-010-263-080		CAP,E 100-10 SME
C712	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C713	87-010-197-080		C-CAP,S 0.01-25 K B
C714	87-010-197-080		C-CAP,S 0.01-25 K B
C721	87-010-312-080		C-CAP,S 15P-50 J CH
C722	87-010-312-080		C-CAP,S 15P-50 J CH
C723	87-010-178-080		C-CAP,S 1000P-50 K B
C725	87-010-178-080		C-CAP,S 1000P-50 K B
C727	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C728	87-010-248-080		CAP,E 220-10 SME
C755	87-010-197-080		C-CAP,S 0.01-25 K B
C756	87-010-197-080		C-CAP,S 0.01-25 K B
C757	87-010-318-080		C-CAP,S 47P-50 J CH
C758	87-010-149-080		C-CAP,S 5P-50 CH
C761	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C762	87-010-197-080		C-CAP,S 0.01-25 K B
C763	87-010-194-080		C-CAP,S 0.047-25 Z F
C765	87-010-197-080		C-CAP,S 0.01-25 K B
C766	87-010-197-080		C-CAP,S 0.01-25 K B
C767	87-010-405-080		CAP,E 10-50 M SME
C768	87-010-197-080		C-CAP,S 0.01-25 K B
C769	87-010-408-080		CAP,E 47-50 SME
C770	87-015-821-080		C-CAP, 0.047-50 Z F GR
C771	87-010-407-080		CAP,E 33-50 SME
C772	87-010-194-080		C-CAP,S 0.047-25 Z F
C773	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C774	87-010-263-080		CAP,E 100-10 SME
C775	87-010-404-080		CAP,E 4.7-50 M SME
C776	87-010-197-080		C-CAP,S 0.01-25 K B
C777	87-010-400-080		CAP,E 0.47-50 M SME
C778	87-010-401-080		CAP,E 1-50 M SME
C779	87-010-401-080		CAP,E 1-50 M SME
C780	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C781	87-010-405-080		CAP,E 10-50 M SME
C782	87-010-405-080		CAP,E 10-50 M SME
C783	87-015-819-080		C-CAP,0.01-50 K B
C784	87-010-197-080		C-CAP,S 0.01-25 K B
C785	87-010-400-080		CAP,E 0.47-50 M SME
C786	87-010-400-080		CAP,E 0.47-50 M SME
C787	87-010-184-080		C-CAP,S 3300P-50 K B
C788	87-010-184-080		C-CAP,S 3300P-50 K B
C789	87-010-179-080		C-CAP,S 1200P-50 K B
C790	87-010-179-080		C-CAP,S 1200P-50 K B
C791	87-010-405-080		CAP,E 10-50 M SME
C793	87-010-178-080		C-CAP,S 1000P-50 K B
C794	87-010-406-080		CAP,E 22-50 M SME
C795	87-010-596-080		C-CAP,S 0.047-16 K R
C796	87-010-403-080		CAP,E 3.3-50 M SME
C797	87-010-182-080		C-CAP,S 2200P-50 K B
C798	87-010-182-080		C-CAP,S 2200P-50 K B
C799	87-010-194-080		C-CAP,S 0.047-25 Z F
C812	87-010-197-080		C-CAP,S 0.01-25 K B
C814	87-010-197-080		C-CAP,S 0.01-25 K B
C820	87-010-408-080		CAP,E 47-50 SME
C821	87-010-197-080		C-CAP,S 0.01-25 K B
C822	87-010-197-080		C-CAP,S 0.01-25 K B
C823	87-010-197-080		C-CAP,S 0.01-25 K B
C828	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C829	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C959	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C960	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C961	87-010-152-080		C-CAP,S 8P-50 D CH
CF801	87-008-261-010		FLTR,CFSFE10.7MA5
CF802	87-008-261-010		FLTR,CFSFE10.7MA5
FFE801	A8-7ZA-290-030		7ZA-2 FEUNM
J252	87-A60-024-010		JACK,DIA6.3 BLK ST W/SW KM
J253	87-099-474-010		JACK,PIN 3P BLK W/SW
J254	87-A60-238-010		TERMINAL,SP 4P (MSC)
J601	87-A60-330-010		JACK,PIN 6P YKC21-31 74
J801	87-A60-202-010		TERMINAL,ANT 4P MSP- 154V-02
L201	87-003-383-010		COIL,1UH K
L202	87-003-383-010		COIL,1UH K
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85KHZ BIAS
L601	87-003-231-080		C-COIL,2125 1UH<74LH ,70LH>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L770	87-005-849-080		COIL,10UH K CECS
L771	87-A50-165-010		COIL,FM DET-N(TOK)
L772	87-A90-245-010		FLTR,CFAZH-450 (TOK)
L791	87-003-293-010		COIL, TRAP MPX
L792	87-003-293-010		COIL, TRAP MPX
L832	87-005-847-080		COIL,2.2UH K CECS
L981	87-NF4-650-010		COIL,AM PACK4N(TOK)
⚠ PR201	87-026-691-080		FUSE,10A 125V 251<71U>
⚠ PR201	87-026-682-080		PROTECTOR,10A 491SERIES 60V<LH>
⚠ PR202	87-026-691-080		FUSE,10A 125V 251<71U>
⚠ PR202	87-026-682-080		PROTECTOR,10A 491SERIES 60V<LH>
R123	87-022-200-080		RES,M/F 0.56-1W J<71U>
R231	87-A00-262-080		RES,M/F 0.15-2W J
R232	87-A00-262-080		RES,M/F 0.15-2W J
RY101	87-045-389-010		RELAY,12V OSA-SS-212DM5
RY201	87-045-382-010		RELAY,12V OUAZ-SH-112L
SFR301	87-024-435-080		SFR,33K H RH063MC
SFR302	87-024-435-080		SFR,33K H RH063MC
SFR303	87-024-435-080		SFR,33K H RH063MC
SFR304	87-024-435-080		SFR,33K H RH063MC
SFR305	87-024-436-080		SFR,47K H RH063MC
SFR306	87-024-436-080		SFR,47K H RH063MC
SFR351	87-024-436-080		SFR,47K H RH063MC
SFR352	87-024-436-080		SFR,47K H RH063MC
TH201	87-A90-221-080		C-THMS,100K<74LH,70LH>
TH202	87-A90-221-080		C-THMS,100K<74LH,70LH>
W1	85-NF5-628-010		F-CABLE,7P-2.5
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
FRONT C.B			
C103	87-010-197-080		C-CAP,S 0.01-25 K B
C104	87-010-312-080		C-CAP,S 15P-50 J CH
C105	87-010-316-080		C-CAP,S 33P-50 J CH
C106	87-010-320-080		C-CAP,S 68P-50 J CH
C107	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C108	87-010-560-040		CAP,E 10-50 M 5L MA
C109	87-010-401-040		CAP,E 1-50 M SME
C110	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C111	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C113	87-A10-189-040		CAP,E 220-10 M
C114	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C115	87-010-178-080		C-CAP,S 1000P-50 K B
C116	87-010-401-040		CAP,E 1-50 M SME
C117	87-010-263-040		CAP,E 100-10 M SME
C118	87-010-194-080		C-CAP,S 0.047-25 Z F
C119	87-010-408-040		CAP,E 47-50 M SME
C120	87-010-404-040		CAP,E 4.7-50 SME
C121	87-010-404-040		CAP,E 4.7-50 SME
C122	87-010-194-080		C-CAP,S 0.047-25 Z F
C123	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C124	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C125	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C127	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C128	87-010-178-080		C-CAP,S 1000P-50 K B
C351	87-012-158-080		C-CAP,S 390P-50 J CH GRM
C352	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C353	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C354	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C355	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C356	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C357	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C605	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
FB601	87-008-372-080		FLTR,EMIBL01 RN1
FL101	87-NF5-611-010		FL,BJ530GK 7NF-5
J601	87-A60-284-010		JACK,3.5MO (MSC)
J602	87-A60-284-010		JACK,3.5MO (MSC)
LED201	87-A40-317-080		LED,SLR-342VCT31 RED
LED202	87-A40-317-080		LED,SLR-342VCT31 RED
LED203	87-A40-317-080		LED,SLR-342VCT31 RED
LED204	87-A40-317-080		LED,SLR-342VCT31 RED
LED205	87-A40-317-080		LED,SLR-342VCT31 RED
LED206	87-A40-316-080		LED,SLR-56PCT31 GRN
LED207	87-A40-316-080		LED,SLR-56PCT31 GRN
LED208	87-A40-316-080		LED,SLR-56PCT31 GRN
LED209	87-A40-316-080		LED,SLR-56PCT31 GRN
LED210	87-A40-316-080		LED,SLR-56PCT31 GRN
LED211	87-A40-316-080		LED,SLR-56PCT31 GRN
LED212	87-A40-316-080		LED,SLR-56PCT31 GRN
LED213	87-A40-316-080		LED,SLR-56PCT31 GRN
LED214	87-A40-316-080		LED,SLR-56PCT31 GRN
LED215	87-A40-316-080		LED,SLR-56PCT31 GRN
LED216	87-A40-263-080		LED,SLH-56PCT31 GRN
LED217	87-A40-263-080		LED,SLH-56PCT31 GRN
LED218	87-A40-263-080		LED,SLH-56PCT31 GRN
LED219	87-A40-263-080		LED,SLH-56PCT31 GRN
LED220	87-A40-263-080		LED,SLH-56PCT31 GRN
LED221	87-A40-263-080		LED,SLH-56PCT31 GRN
LED233	87-A40-265-010		LED,SLH-56PCL GRN
LED234	87-A40-265-010		LED,SLH-56PCL GRN
LED235	87-A40-267-010		LED,SLH-56VCL RED
LED236	87-A40-267-010		LED,SLH-56VCL RED
LED237	87-A40-265-010		LED,SLH-56PCL GRN
LED238	87-A40-265-010		LED,SLH-56PCL GRN
S301	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
S305	87-A90-095-080		SW,TACT EVQ11G04M
S306	87-A90-095-080		SW,TACT EVQ11G04M
S307	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M
S314	87-A90-095-080		SW,TACT EVQ11G04M
S315	87-A90-095-080		SW,TACT EVQ11G04M
S316	87-A90-095-080		SW,TACT EVQ11G04M
S317	87-A90-095-080		SW,TACT EVQ11G04M
S318	87-A90-095-080		SW,TACT EVQ11G04M
S319	87-A90-095-080		SW,TACT EVQ11G04M
S320	87-A90-095-080		SW,TACT EVQ11G04M
S322	87-A90-095-080		SW,TACT EVQ11G04M
S328	87-A90-095-080		SW,TACT EVQ11G04M
S329	87-A90-095-080		SW,TACT EVQ11G04M
S330	87-A90-095-080		SW,TACT EVQ11G04M
S331	87-A90-095-080		SW,TACT EVQ11G04M
S332	87-A90-095-080		SW,TACT EVQ11G04M
S336	87-A90-095-080		SW,TACT EVQ11G04M
X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF
CD KEY C.B			
S309	87-A90-095-080		SW,TACT EVQ11G04M
S310	87-A90-095-080		SW,TACT EVQ11G04M
S311	87-A90-095-080		SW,TACT EVQ11G04M
S312	87-A90-095-080		SW,TACT EVQ11G04M
S313	87-A90-095-080		SW,TACT EVQ11G04M
FAN C.B			
C130	87-010-401-080		CAP,E 1-50 M SME<74LH,70LH>
C131	87-010-263-080		CAP,E 100-10 SME<74LH,70LH>
C132	87-010-380-080		CAP,E 47-16 M SME<74LH,70LH>
AC2 C.B			
⚠ PR1	87-026-691-080		FUSE,10A 125V 251<71U>
⚠ PR1	87-026-682-080		PROTECTOR,10A 491SERIES 60V<LH>
⚠ PR2	87-026-691-080		FUSE,10A 125V 251<71U>
⚠ PR2	87-026-682-080		PROTECTOR,10A 491SERIES 60V<LH>
⚠ PR5	87-026-691-080		FUSE,10A 125V 251<71U>

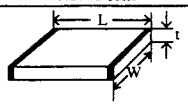
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠ PR5	87-026-682-080		PROTECTOR,10A 491SERIES 60V<LH>
⚠ PR6	87-026-691-080		FUSE,10A 125V 251<71U>
⚠ PR6	87-026-682-080		PROTECTOR,10A 491SERIES 60V<LH>
AC1 C.B			
⚠ FC1	87-033-147-010		FUSE CLAMP,MT-20<74LH,70LH>
⚠ FC1	87-033-213-080		FUSE CLAMP,PFC5000<71U>
⚠ FC2	87-033-147-010		FUSE CLAMP,MT-20<74LH,70LH>
⚠ FC2	87-033-213-080		FUSE CLAMP,PFC5000<71U>
⚠ FC3	87-033-147-010		FUSE CLAMP,MT-20<74LH,70LH>
⚠ FC4	87-033-147-010		FUSE CLAMP,MT-20<74LH,70LH>
⚠ F101	87-035-457-010		FUSE,3.15A 250V T218<74LH,70LH>
⚠ F101	87-035-491-010		FUSE,6A 125V T237<71U>
⚠ F102	87-035-457-010		FUSE,3.15A 250V T218<74LH,70LH>
⚠ PT101	87-NF5-605-010		PT,LH EI85-58 7NF-5<74LH,70LH>
⚠ PT101	87-NF5-601-010		PT,U EI85-58 7NF-5<71U>
⚠ SW101	87-A90-165-010		SW,SL 1-2-3 SWS2301<74LH,70LH>
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC
AUDIO C.B			
C405	87-010-401-040		CAP,E 1-50 M SME
C406	87-010-401-040		CAP,E 1-50 M SME
C414	87-010-374-040		CAP,E 47-10 SME
C415	87-010-374-040		CAP,E 47-10 SME
C418	87-010-405-040		CAP,E 10-50 M SME
C512	87-010-374-040		CAP,E 47-10 SME
C513	87-010-404-040		CAP,E 4.7-50 SME
C514	87-010-404-040		CAP,E 4.7-50 SME
C519	87-010-263-040		CAP,E 100-10 M SME
C533	87-010-545-080		CAP,E 0.22-50 M SME
C601	87-010-405-040		CAP,E 10-50 M SME
C603	87-010-405-040		CAP,E 10-50 M SME
C604	87-010-382-040		CAP,E 22-25 SME
C609	87-010-545-040		CAP,E 0.22-50 M SME
C614	87-010-248-040		CAP,E 220-10 M SME
FB401	87-008-372-080		FLTR,EMIBL01 RN1<71U>
L501	87-005-212-080		COIL,220UH K EL0606
RE C.B			
C101	87-010-198-080		C-CAP,S 0.022-25 K B
C102	87-010-198-080		C-CAP,S 0.022-25 K B
C403	87-010-992-080		C-CAP,S 0.047-25 K B MK212
C404	87-010-992-080		C-CAP,S 0.047-25 K B MK212
C407	87-010-184-080		C-CAP,S 3300P-50 K B
C408	87-010-184-080		C-CAP,S 3300P-50 K B
C409	87-010-592-080		C-CAP,S 0.022-16 K R<71U,70LH>
C410	87-010-592-080		C-CAP,S 0.022-16 K R<71U,70LH>
C411	87-016-463-080		C-CAP, 0.33-16 K B C3216
C412	87-016-463-080		C-CAP, 0.33-16 K B C3216
C413	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C416	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C417	87-016-081-080		C-CAP,S 0.1-16 K R
C419	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<71U>
C501	87-010-319-080		C-CAP,S 56P-50 J CH
C502	87-010-319-080		C-CAP,S 56P-50 J CH
C503	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
C504	87-010-197-080		C-CAP,S 0.01-25 K B
C505	87-010-180-080		C-CAP,S 1500P-50 K B
C506	87-010-213-080		C-CAP,S 0.015-25 K B
C507	87-010-213-080		C-CAP,S 0.015-25 K B
C508	87-010-197-080		C-CAP,S 0.01-25 K B
C509	87-010-181-080		C-CAP,S 1800P-50 K B
C510	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C511	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C515	87-010-183-080		C-CAP,S 2700P-50 K B
C516	87-010-183-080		C-CAP,S 2700P-50 K B
C518	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C602	87-010-186-080		C-CAP,S 4700P-50 K B
C607	87-010-321-080		C-CAP,S 82P-50 J CH
C608	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C611	87-010-177-080		C-CAP,S 820P-50 J SL
S101	87-A90-535-010		SW,RTRY EC16B24304-W0 NON
S326	87-A90-095-080		SW,TACT EVQ11G04M
S327	87-A90-095-080		SW,TACT EVQ11G04M
DECK C.B			
W001	82-ZM3-601-019		RBN,CORD,4P-75
SFR1	87-024-581-019		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-010		SOL ASSY, 27
SOL2	82-ZM1-618-010		SOL ASSY, 27
SW1	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW4	87-036-110-010		SW,MICRO SPPB62
SW5	87-036-110-010		SW,MICRO SPPB62
SW6	87-036-110-010		SW,MICRO SPPB62
SW8	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW9	87-036-110-010		SW,MICRO SPPB62
CON502	87-099-756-019		CONN, 15P 9604 S F
HEAD-1 C.B			
	85-ZM3-602-010		PWB,FLEX A
HEAD-2 C.B			
	85-ZM3-602-010		PWB,FLEX A

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

E C B

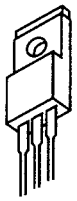
KTA1266GR
KTC3198GR

E C B

CSD1489B
CSB1058B

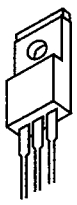
E B C

C2N5401



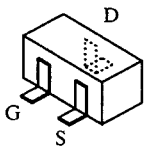
B C E

2SB1370
FN1016
FP1016



G D G

2SK2723



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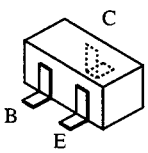
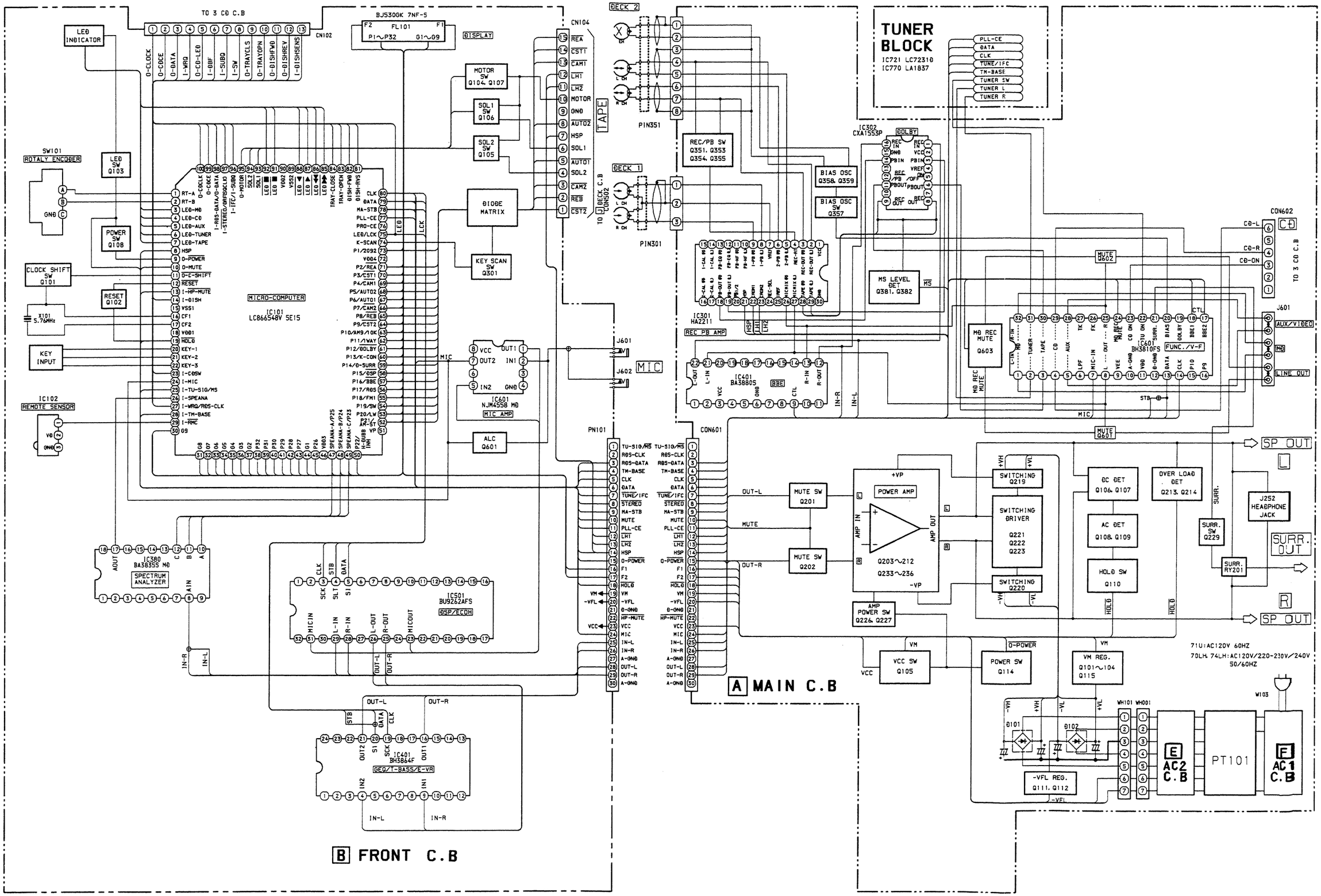
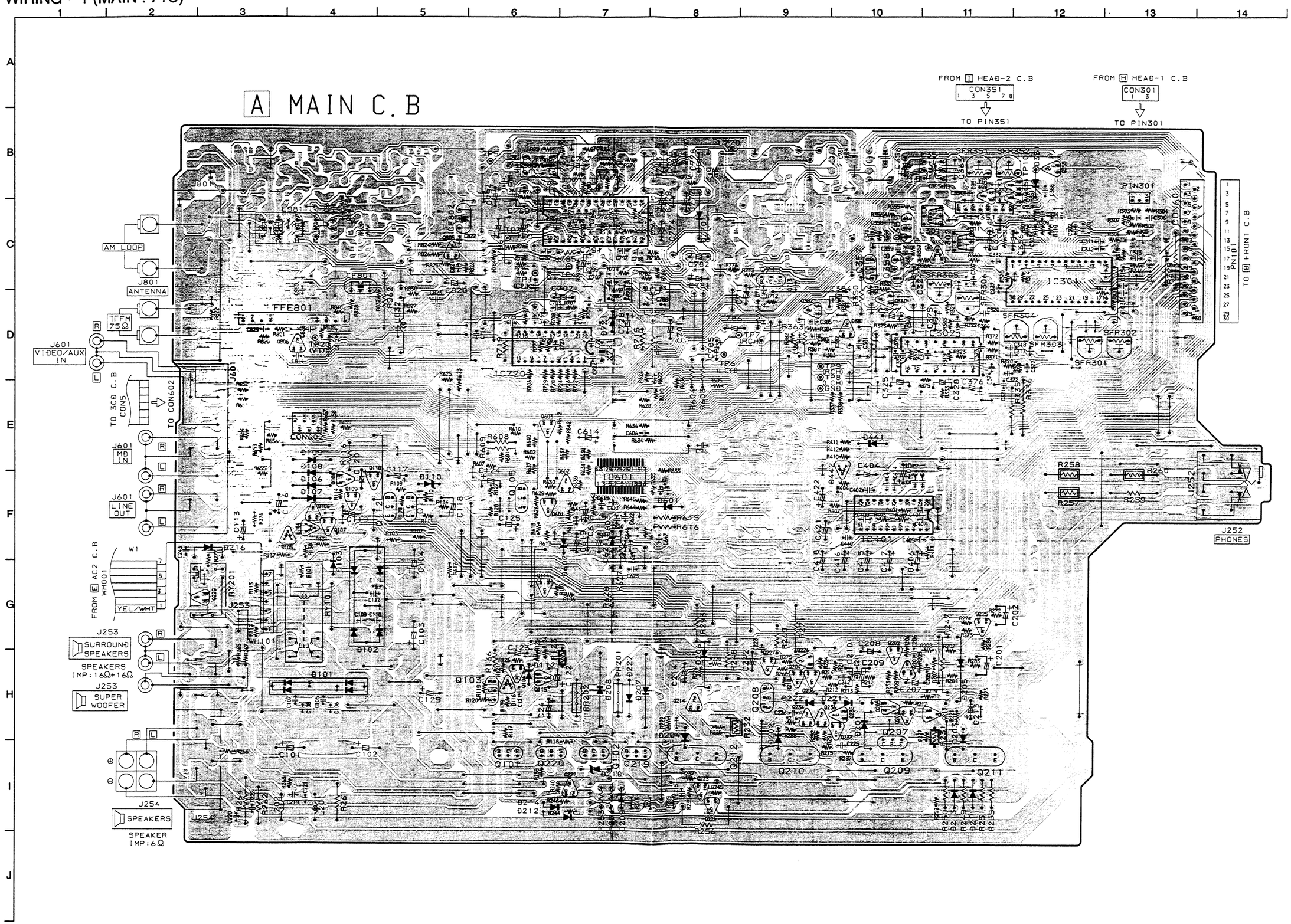


2SA1235F
2SC2714
2SC3052F
CMBT5551
CSA1362GR
CSD1306E
RN1404
RT1N141C
RT1N144C
RT1P141C
RT1P144C

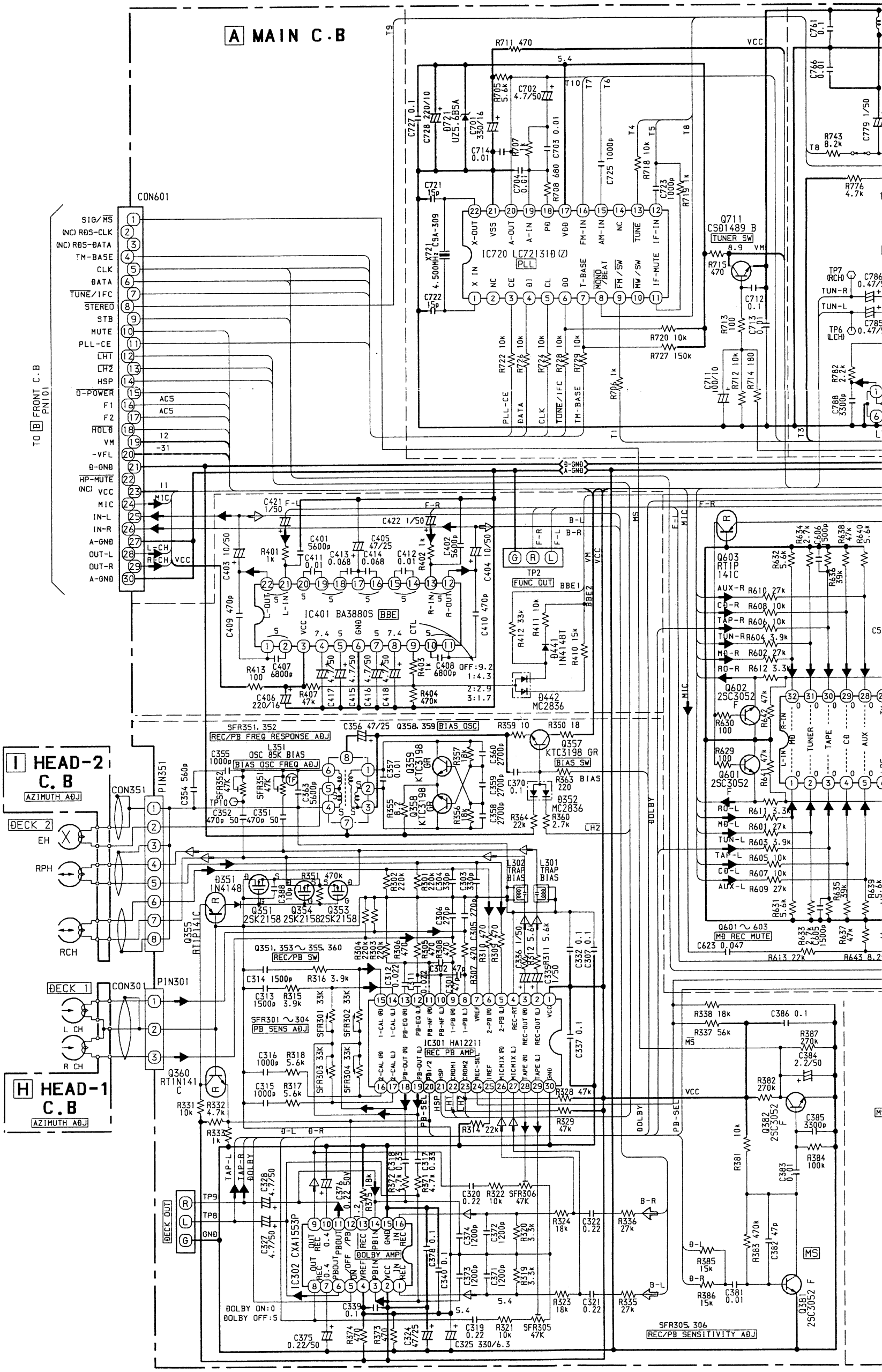
BLOCK DIAGRAM (MAIN / FRONT)



WIRING – 1 (MAIN : 71U)

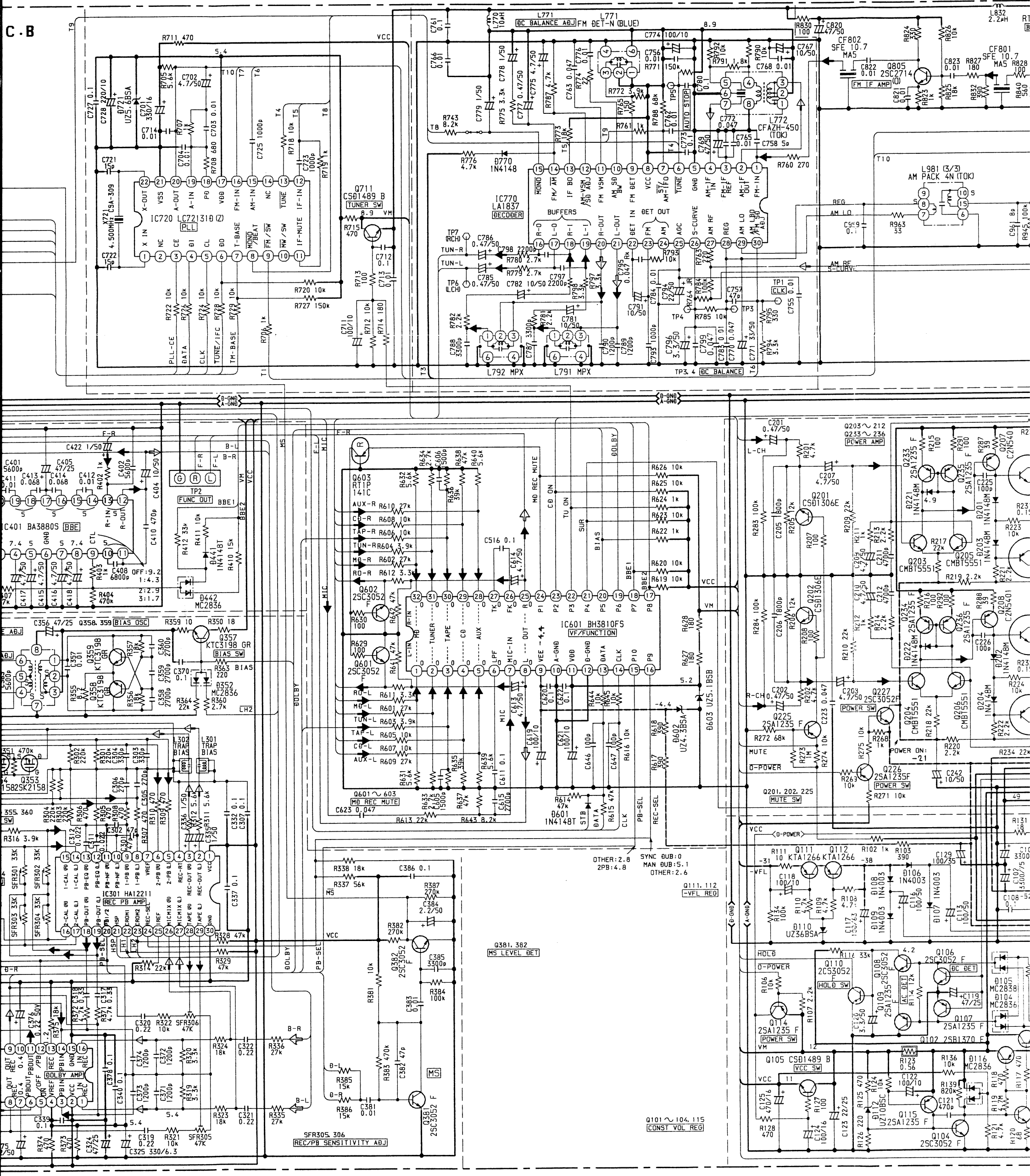


SCHEMATIC DIAGRAM – 1 (MAIN : 71U)



J)

C.B


IC720 LC72131Ø (Z)
PLL
IC770 LA1837
ØECODER
IC601 BH3810FS
VF/FUNCTION
IC401 BA3880S
BBE
IC301 HA12211
REC PB AMP
ØOLBY AMP
BIAS OSC
L771 FM ØET-N (BLUE)
ØC BALANCE AØJ
L792 MPX
L791 MPX
TP3, 4 ØC BALANCE
CF802 SFE 10.7 MA5
CF801 SFE 10.7 MA5
FM IF AMP
Q805 2SC2714 (O)
L772 CFAZH-450 (TOK)
L981 (3/3) AM PACK 4N (TOK)
Q711 CSØ1489 B
TUNER SW
Q603 RTIP 141C
Q602 2SC3052 F
Q601 2SC3052 F
Q601 ~ 603 MØ REC MUTE
Q603 UZ5.1BSB
Q602 UZ4.3BSA
Q601 1N4148T
Q352 MC2836
Q441 1N4148T
Q442 MC2836
Q357 KTC3198 GR
BIAS SW
Q359 KTC3198 GR
Q358 KTC3198 GR
Q353 2SK2158
L302 TRAP BIAS
L301 TRAP BIAS
Q203 ~ 212
Q233 ~ 236
POWER AMP
Q201 CSØ1306E
Q202 CSØ1306E
Q203 CMBT5551
Q204 CMBT5551
Q205 CMBT5551
Q206 CMBT5551
Q225 2SA1235 F
Q227 2SC3052F
POWER SW
Q226 2SA1235F
POWER SW
Q201, 202, 225
MUTE SW
Q111 KTA1266
Q112 KTA1266
-VFL REG
Q381, 382
MS LEVEL ØET
Q101 ~ 104, 115
CONST VOL REG
Q105 CSØ1489 B
VCC SW
Q106 2SC3052 F
ØC ØET
Q107 2SA1235 F
Q108 2SA1235 F
Q109 2SA1235 F
Q110 2SC3052 F
HOLØ SW
Q114 2SA1235 F
POWER SW
Q115 2SA1235 F
Q104 2SC3052 F
Q102 2SB1370 F
Q381 2SC3052 F
Q382 2SC3052 F
ØBBE
ØDOLBY
ØSFR305, 306
REC/PB SENSITIVITY AØJ
ØOTHER:2.8
2PB:4.8
SYNC ØUB:0
MAN ØUB:5.1
OTHER:2.6
ØBIAS
ØMUTE
ØPOWER ON: -21
ØAM RF S-CURVE
ØREG
ØAM LO
ØTUN-R
ØTUN-L
ØTP7 (RCH)
ØTP6 (LCH)
ØTP1 CLK
ØTP3
ØTP4
ØL-CH
ØR-CH
ØVCC
ØVM
ØMUTE
ØHOLØ
ØAUTO STOP
ØBUFFERS
ØØET IN
ØØET OUT
ØS-CURVE
ØAM RF
ØAM LO
ØAM LØØ ADJ
ØFM-IF IN
ØAM-IF OUT
ØFM-IF REF
ØAM-IF IN
ØGND
ØTUNE
ØAFC
ØSTØ
ØAM-IFØ
ØAM SØ BW
ØAM-VSM SØ ADJ
ØIF BØ
ØFM/AM
ØMONO
ØVEE -4.4
ØP10
ØP9
ØP8
ØP7
ØP6
ØP5
ØP4
ØP3
ØP2
ØP1
ØR-Ø
ØTK-Ø
ØFK-Ø
ØL-Ø
ØR-IN
ØL-IN
ØMØ
ØTUNER
ØTAPE
ØCØ
ØAUX
ØOUT
ØLPF
ØMIC-IN
ØDATA
ØCLK
ØPIØ
ØSTB
ØPB-SEL
ØREC-SEL
ØMØ REC MUTE
ØCØ ON
ØTU ON
ØSUR
ØBIAS
ØDOLBY
ØF-R
ØB-R
ØF-L
ØB-L
ØMIC
ØMS
ØVCC
ØVM
ØD-GNØ
ØA-GNØ
ØBBE1
ØBBE2
ØFUNC OUT
ØTP2
ØPLL-CE
ØDATA
ØCLK
ØTUNE/IFC
ØTM-BASE
ØBBE
ØCTL
ØR-IN
ØR-OUT
ØOFF:9.2
1:4.3
2:2.9
3:1.7
ØBIAS
ØBIAS SW
ØLH2
ØLH1
ØLH2
ØSFR303 33K
ØSFR304 33K
ØSFR301 33K
ØSFR302 33K
ØPB-SEL
ØHSP
ØREC/PB SENSITIVITY AØJ
ØSFR305, 306
ØMS
ØMS LEVEL ØET
ØOTHER:2.8
2PB:4.8
ØSYNC ØUB:0
MAN ØUB:5.1
OTHER:2.6
ØQ111, 112
-VFL REG
ØQ101 ~ 104, 115
CONST VOL REG
ØQ381, 382
MS LEVEL ØET
ØQ105 CSØ1489 B
VCC SW
ØQ106 2SC3052 F
ØC ØET
ØQ107 2SA1235 F
ØQ108 2SA1235 F
ØQ109 2SA1235 F
ØQ110 2SC3052 F
HOLØ SW
ØQ114 2SA1235 F
POWER SW
ØQ115 2SA1235 F
ØQ104 2SC3052 F
ØQ102 2SB1370 F
ØQ381 2SC3052 F
ØQ382 2SC3052 F
ØQ201, 202, 225
MUTE SW
ØQ203 ~ 212
Q233 ~ 236
POWER AMP
ØQ603 RTIP 141C
ØQ602 2SC3052 F
ØQ601 2SC3052 F
ØQ601 ~ 603 MØ REC MUTE
ØQ603 UZ5.1BSB
ØQ602 UZ4.3BSA
ØQ601 1N4148T
ØQ352 MC2836
ØQ441 1N4148T
ØQ442 MC2836
ØQ357 KTC3198 GR
BIAS SW
ØQ359 KTC3198 GR
ØQ358 KTC3198 GR
ØQ353 2SK2158
ØQ711 CSØ1489 B
TUNER SW
ØQ805 2SC2714 (O)
ØFM IF AMP
ØQ201 CSØ1306E
ØQ202 CSØ1306E
ØQ203 CMBT5551
ØQ204 CMBT5551
ØQ205 CMBT5551
ØQ206 CMBT5551
ØQ225 2SA1235 F
ØQ227 2SC3052F
POWER SW
ØQ226 2SA1235F
POWER SW
ØIC720 LC72131Ø (Z)
PLL
ØIC770 LA1837
ØECODER
ØIC601 BH3810FS
VF/FUNCTION
ØIC401 BA3880S
BBE
ØIC301 HA12211
REC PB AMP
ØBUFFERS
ØL792 MPX
ØL791 MPX
ØTP3, 4 ØC BALANCE
ØCF802 SFE 10.7 MA5
ØCF801 SFE 10.7 MA5
ØL771 FM ØET-N (BLUE)
ØØC BALANCE AØJ
ØL772 CFAZH-450 (TOK)
ØL981 (3/3) AM PACK 4N (TOK)
ØL301 TRAP BIAS
ØL302 TRAP BIAS
ØL832 2.2µH
ØD-GNØ
ØA-GNØ
ØVCC
ØVM
ØT1
ØT3
ØT4
ØT5
ØT6
ØT7
ØT8
ØT9
ØT10
ØR711 470
ØR715 470
ØR720 10k
ØR727 150k
ØR743 8.2k
ØR776 4.7k
ØR760 270
ØR830 1100
ØR763 220
ØR764 JR
ØR784 100k
ØR785 10k
ØR795 330
ØR793 10k
ØR797 3.3k
ØR798 3.3k
ØR780 2.7k
ØR779 2.7k
ØR782 2.2k
ØR781 2.2k
ØR963 33
ØR945 100k
ØR628 180
ØR627 180
ØR618 390
ØR617 390
ØR614 47k
ØR615 47k
ØR613 22k
ØR643 8.2k
ØR631 5.6k
ØR633 1500p
ØR637 47k
ØR635 39k
ØR639 5.6k
ØR634 2.7k
ØR638 47k
ØR640 5.6k
ØR632 5.6k
ØR636 39k
ØR610 27k
ØR608 10k
ØR606 10k
ØR604 3.9k
ØR602 27k
ØR612 3.3k
ØR611 3.3k
ØR601 27k
ØR603 3.9k
ØR605 10k
ØR607 10k
ØR609 27k
ØR626 10k
ØR625 10k
ØR624 1k
ØR623 10k
ØR622 1k
ØR620 10k
ØR619 10k
ØR630 100
ØR629 100
ØR644 10k
ØR645 10k
ØR646 10k
ØR616 10k
ØR647 100p
ØR644 100p
ØR772 5.9k
ØR771 150k
ØR791 1.8k
ØR792 10k
ØR790 10k
ØR765 150
ØR788 68k
ØR787 4.7k
ØR774 22
ØR773 1.8k
ØR761 1k
ØR762 1k
ØR822 330
ØR826 10k
ØR823 1k
ØR825 18k
ØR832 390
ØR827 180
ØR840 560
ØR828 100
ØR829 100
ØR831 100
ØR830 1100
ØR722 10k
ØR723 10k
ØR724 10k
ØR728 10k
ØR729 10k
ØR706 1k
ØR712 10k
ØR714 180
ØR713 100
ØR705 5.6k
ØR707 1k
ØR708 680
ØR718 10k
ØR719 1k
ØR715 470
ØR412 33k
ØR411 10k
ØR410 15k
ØR404 470k
ØR403 1k
ØR402 1k
ØR359 10
ØR350 18
ØR363 220
ØR364 22k
ØR360 2.7k
ØR355 8.2
ØR356 18k
ØR357 18k
ØR358 18k
ØR316 3.9k
ØR314 22k
ØR329 47k
ØR328 47k
ØR322 10k
ØR321 10k
ØR320 3.3k
ØR319 3.3k
ØR324 18k
ØR323 18k
ØR336 27k
ØR335 27k
ØR338 18k
ØR337 56k
ØR387 270k
ØR382 270k
ØR381 10k
ØR383 470k
ØR384 100k
ØR385 15k
ØR386 15k
ØR375 18k
ØR376 0.22 50V
ØR372 4.7k 0.33
ØR371 4.7k 0.33
ØR374 470
ØR373 470
ØR324 47/25
ØR325 330/6.3
ØR272 68k
ØR273 1M
ØR274 10k
ØR275 10k
ØR268 1k
ØR263 10k
ØR271 10k
ØR220 2.2k
ØR242 10/50
ØR234 22k
ØR111 10
ØR102 1k
ØR103 390
ØR118 470
ØR117 470
ØR119 4.7M
ØR121 4.7k
ØR120 6.8
ØR122 0.56
ØR123 0.56
ØR136 10k
ØR139 820k
ØR126 220
ØR125 470
ØR124 10k
ØR127 100
ØR128 470
ØR106 10k
ØR107 2.2k
ØR110 4.7k
ØR109 4.7k
ØR108 4.7k
ØR134 100k
ØR283 100k
ØR284 100k
ØR201 4.7k
ØR202 4.7k
ØR207 100
ØR209 22k
ØR210 22k
ØR211 1k
ØR212 1k
ØR213 2.2k
ØR214 2.2k
ØR217 22k
ØR218 22k
ØR219 2.2k
ØR221 2.2k
ØR222 2.2k
ØR223 10k
ØR224 10k
ØR215 100
ØR291 100
ØR287 39
ØR288 39
ØR292 100
ØR216 100
ØR114 12k
ØR115 33k
ØC118 100/10
ØC119 47/25
ØC120 3.3/50
ØC122 100/10
ØC123 22/25
ØC124 100/16
ØC125 470/16
ØC127 100
ØC129 100/35
ØC116 100/50
ØC117 100/63
ØC113 100/50
ØC102 3300/75
ØC108 0.1
ØC761 0.1
ØC766 0.01
ØC727 0.1
ØC728 220/10
ØC721 15p
ØC722 15p
ØC714 0.01
ØC704 0.01
ØC703 0.01
ØC725 1000p
ØC723 1000p
ØC702 4.7/50
ØC701 330/16
ØC712 0.1
ØC713 0.01
ØC711 100/10
ØC786 0.47/50
ØC785 0.47/50
ØC782 10/50
ØC798 2200p
ØC797 2200p
ØC795 0.047
ØC791 10/50
ØC784 0.01
ØC794 22/50
ØC757 47p
ØC755 0.01
ØC788 3300p
ØC787 3300p
ØC790 1200p
ØC789 1200p
ØC793 1000p
ØC796 3.3/50
ØC799 0.047
ØC783 0.01
ØC770 0.047
ØC771 33/50
ØC774 100/10
ØC756 0.01
ØC776 0.01
ØC763 0.047
ØC775 4.7/50
ØC778 1/50
ØC779 1/50
ØC775 3.3k
ØC777 0.47/50
ØC780 0.1
ØC762 0.01
ØC773 0.1
ØC772 0.047
ØC765 0.01
ØC758 5p
ØC769 47/50
ØC767 10/50
ØC768 0.01
ØC820 47/50
ØC822 0.01
ØC821 0.01
ØC823 0.01
ØC824 330
ØC825 18k
ØC826 10k
ØC827 180
ØC959 0.1
ØC961 8p
ØC516 0.1
ØC614 4.7/50
ØC620 0.1
ØC622 0.1
ØC621 100/10
ØC619 100/10
ØC613 4.7/50
ØC611 0.1
ØC615 2700p
ØC623 0.047
ØC646 100p
ØC647 100p
ØC606 500p
ØC636 39k
ØC635 39k
ØC639 5.6k
ØC637 47k
ØC633 1500p
ØC631 5.6k
ØC643 8.2k
ØC613 22k
ØC201 0.47/50
ØC202 0.47/50
ØC203 4.7/50
ØC204 4.7/50
ØC205 4.7/50
ØC206 12k
ØC207 4.7/50
ØC208 12k
ØC209 4.7/50
ØC210 4.7/50
ØC211 4700p
ØC212 4700p
ØC225 100p
ØC226 100p
ØC223 0.047
ØC205 800p
ØC206 800p
ØC221 1N4148M
ØC222 1N4148M
ØC203 1N4148M
ØC204 1N4148M
ØC201 1N4148M
ØC202 1N4148M
ØC207 1N4003
ØC208 1N4003
ØC209 1N4003
ØC106 1N4003
ØC107 1N4003
ØC110 UZ36BSA
ØC112 UZ10BSC
ØC116 MC2836
ØC105 MC2838
ØC104 MC2836
ØC312 0.022
ØC311 0.022
ØC336 1/50
ØC312 5.6k
ØC311 5.6k
ØC335 1/50
ØC332 0.1
ØC307 0.1
ØC337 0.1
ØC301 470
ØC302 47p
ØC306 270p
ØC305 270p
ØC307 470
ØC308 470
ØC303 330p
ØC304 330p
ØC309 470
ØC310 470
ØC340 0.1
ØC378 0.1
ØC339 0.1
ØC376 0.22 50V
ØC318 4.7k 0.33
ØC317 4.7k 0.33
ØC320 0.22
ØC322 0.22
ØC321 0.22
ØC374 1200p
ØC372 1200p
ØC373 1200p
ØC371 1200p
ØC319 0.22
ØC325 330/6.3
ØC324 47/25
ØC322 0.22
ØC323 0.22
ØC321 0.22
ØC386 0.1
ØC384 2.2/50
ØC385 3300p
ØC383 0.01
ØC382 47p
ØC381 0.01
ØC422 1/50
ØC402 5600p
ØC405 47/25
ØC414 0.068
ØC413 0.068
ØC412 0.01
ØC404 10/50
ØC410 470p
ØC408 6800p
ØC417 4.7/50
ØC415 4.7/50
ØC416 4.7/50
ØC418 4.7/50
ØC356 47/25
ØC357 0.01
ØC360 2700p
ØC359 2700p
ØC370 0.1
ØC358 2700p
ØC361 8p
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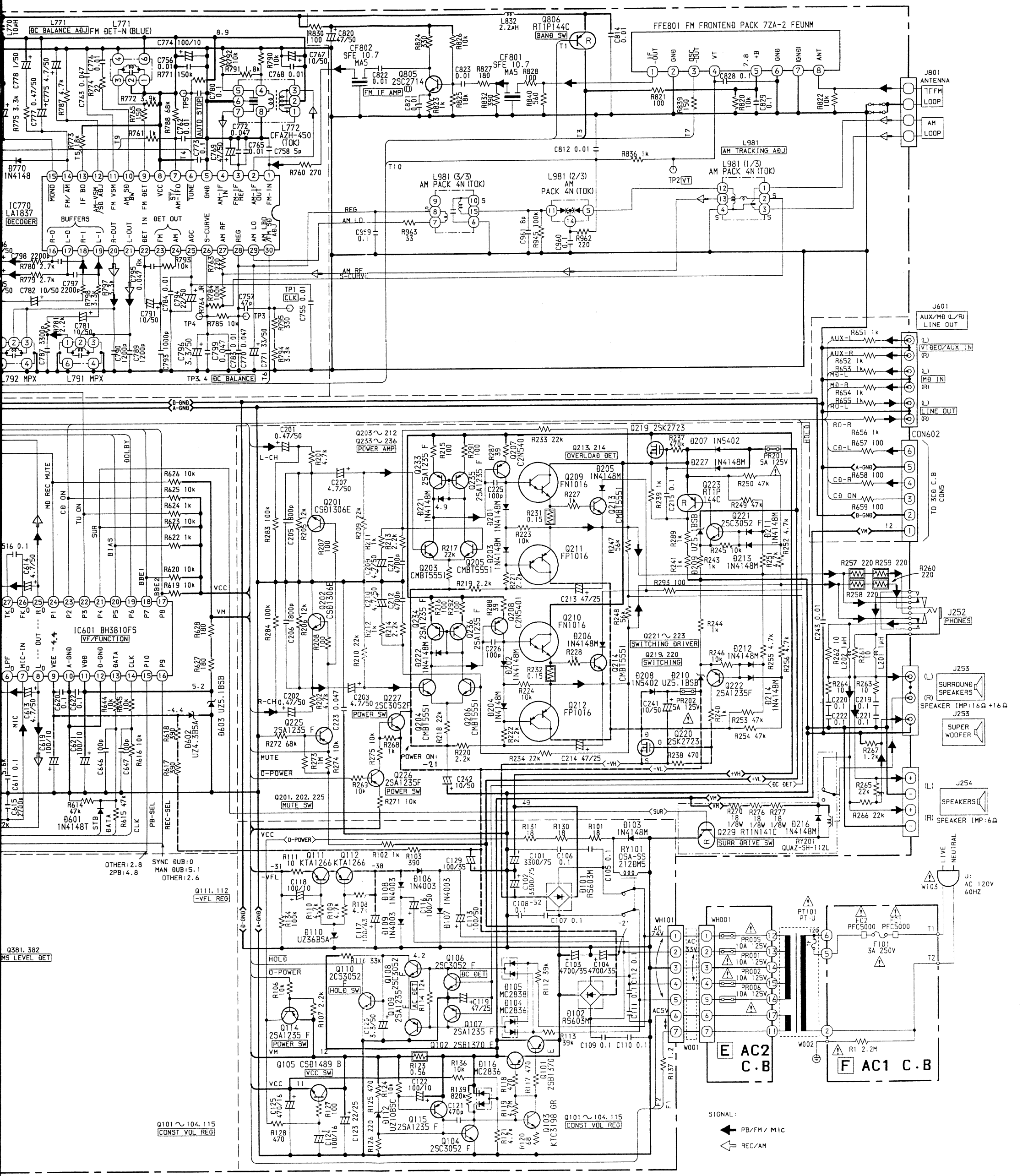
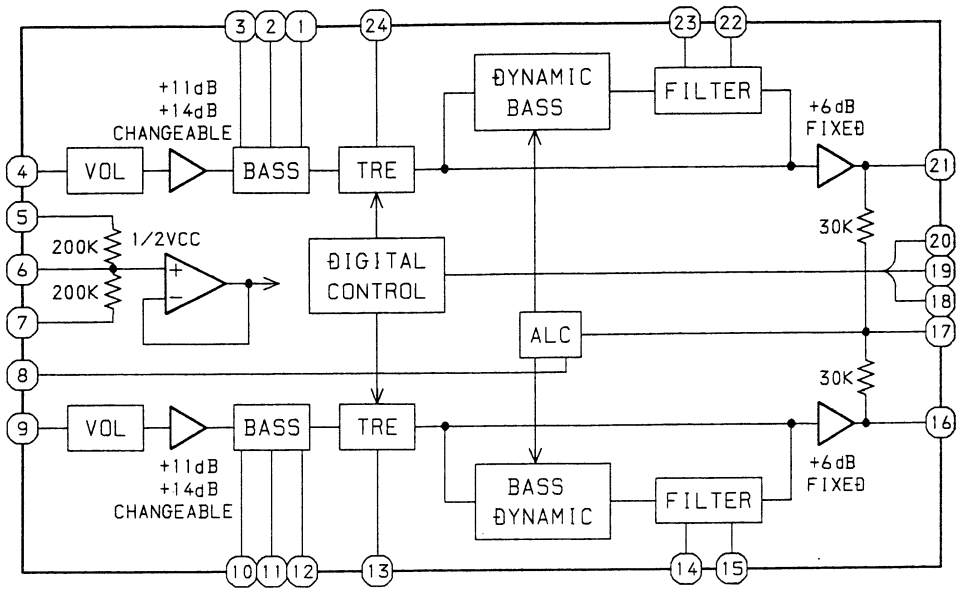
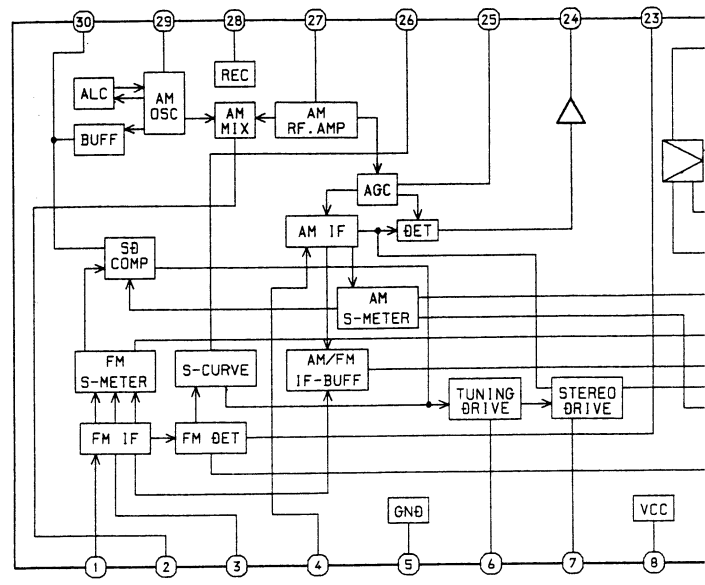

FFE801 FM FRONTEND PACK 7ZA-2 FEUNM
IF-OUT
GND
OSC-OUT
VT
7.8
+B
GND
(GND)
ANT
J801
ANTENNA
FM
LOOP
AM
LOOP
L771
DC BALANCE ADJ
FM DET-N (BLUE)
L772
CFAZH-450
(TOK)
CF802
SFE 10.7
MA5
CF801
SFE 10.7
MA5
Q805
2SC2714
(O)
FM IF AMP
Q806
RT1P144C
BAND SW
L832
2.2μH
L981
AM TRACKING ADJ
L981 (1/3)
AM PACK 4N (TOK)
L981 (2/3)
AM
PACK 4N (TOK)
L981 (3/3)
AM PACK 4N (TOK)
TP2 VT
D770
1N4148
IC770
LA1837
DECODER
BUFFERS
DET OUT
S-CURVE
REG
AM LO
AM RF
S-CURV
TP1
CLK
TP3
TP4
TP5
AUTO STOP
L792 MPX
L791 MPX
TP3, 4
DC BALANCE
D-GND
A-GND
J601
AUX/MD (L/R)
LINE OUT
AUX-L
AUX-R
MD-L
MD-R
RO-L
RO-R
CON602
TO 3CD C.B
CON5
CD-L
CD-R
CD ON
D-GND
VM
J252
PHONES
J253
SURROUND
SPEAKERS
SPEAKER IMP:16Ω +16Ω
J253
SUPER
WOOFER
J254
SPEAKERS
SPEAKER IMP:6Ω
VIDEO/AUX IN
MD IN
LINE OUT
IC601 BH3810FS
VF/FUNCTION
MD REC MUTE
CD ON
TU ON
SUB
BIAS
DOLBY
BBE1
BBE2
VCC
Q201
CSD1306E
Q202
CSD1306E
Q203 ~ 212
Q233 ~ 236
POWER AMP
Q213, 214
OVERLOAD DET
Q219 2SK2723
Q209
FN1016
Q211
FP1016
Q210
FN1016
Q212
FP1016
Q203
CMBT5551
Q205
CMBT5551
Q204
CMBT5551
Q206
CMBT5551
Q207
C2N5540
Q208
C2N5401
Q213
CMBT5551
Q214
CMBT5551
Q221 ~ 223
SWITCHING DRIVER
Q219, 220
SWITCHING
Q220
2SK2723
Q221
2SC3052 F
Q222
2SA1235F
Q223
RT1P144C
Q225
2SA1235 F
Q227
2SC3052F
POWER SW
Q226
2SA1235F
POWER SW
Q201, 202, 225
MUTE SW
MUTE
POWER ON:
-21
D-POWER
-VFL
-VH
-VL
+VH
+VL
DC DET
Q229 RT1N141C
SURR DRIVE SW
RY101
OSA-SS
212DM5
RY201
QUAZ-SH-112L
Q111, 112
-VFL REG
Q101 ~ 104, 115
CONST VOL REG
Q110
2CS3052
HOLD SW
HOLD
Q114
2SA1235 F
POWER SW
Q105 CSD1489 B
VCC SW
Q381, 382
MS LEVEL DET
WH101
WH001
W001
W002
E AC2
C.B
F AC1 C.B
PT101
PT-U
FC2
PFC5000
FC1
PFC5000
F101
3A 250V
W103
LIVE
NEUTRAL
U:
AC 120V
60HZ
SIGNAL:
PB/FM/MIC
REC/AM
OTHER:2.8
2PB:4.8
SYNC DUB:0
MAN DUB:5.1
OTHER:2.6

IC BLOCK DIAGRAM – 1

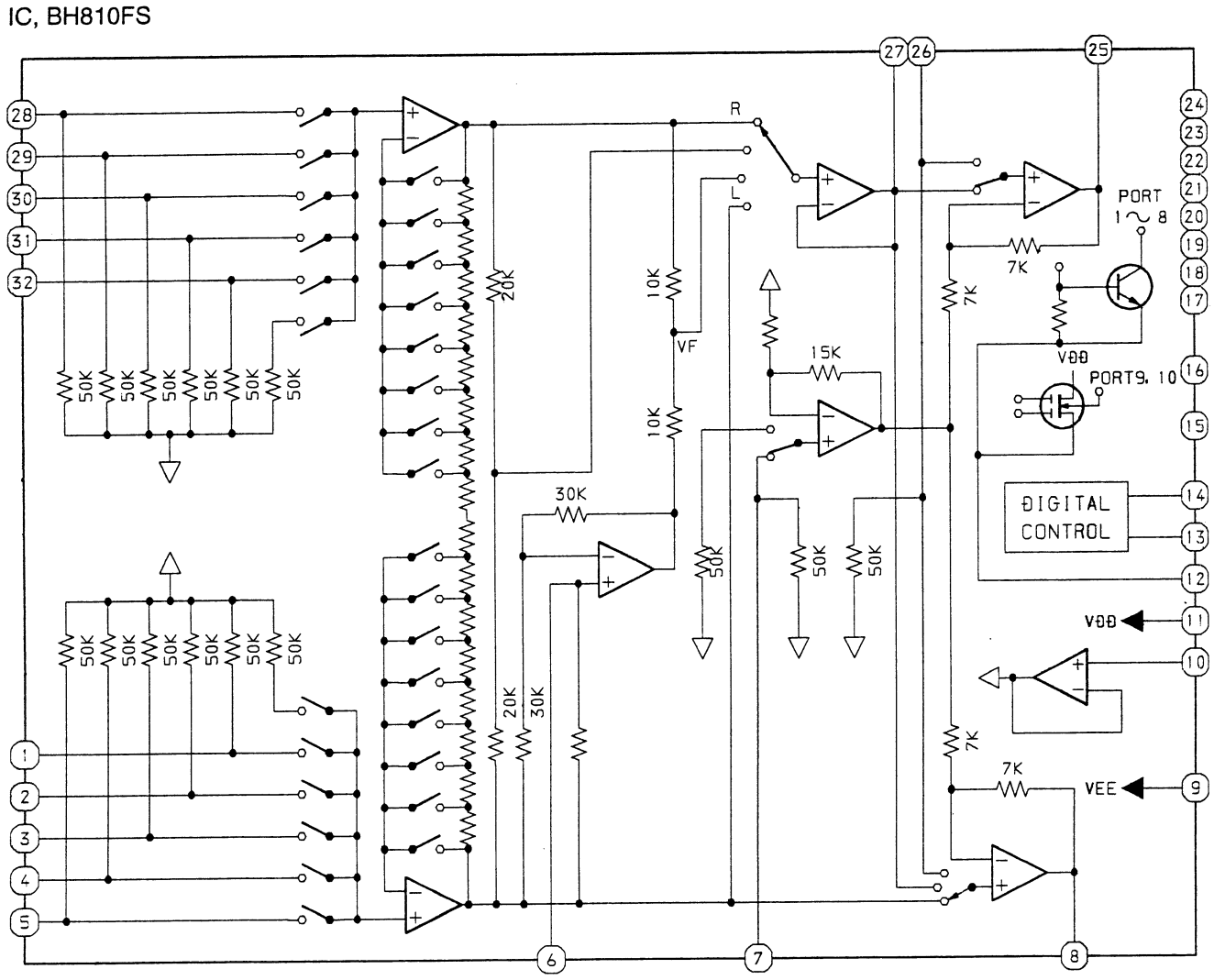
IC, BH3864F



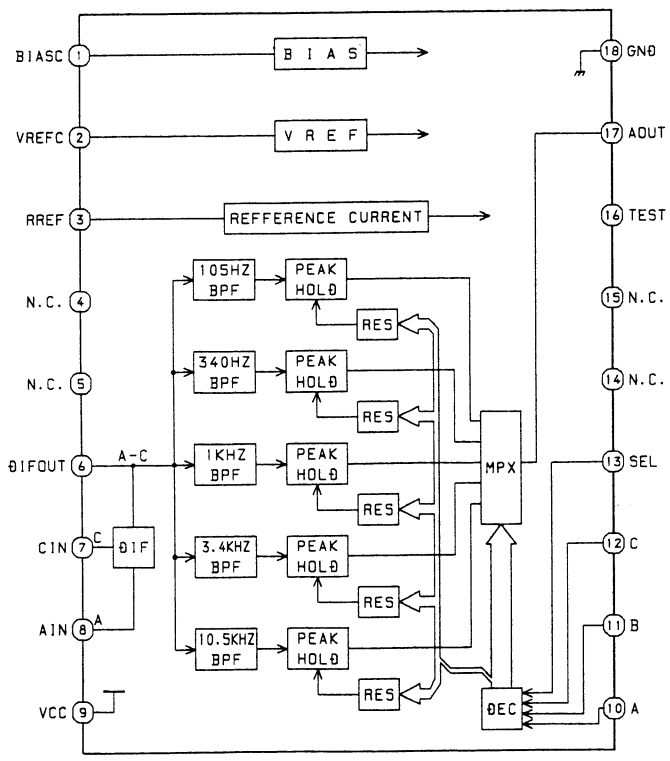
IC, LA1837



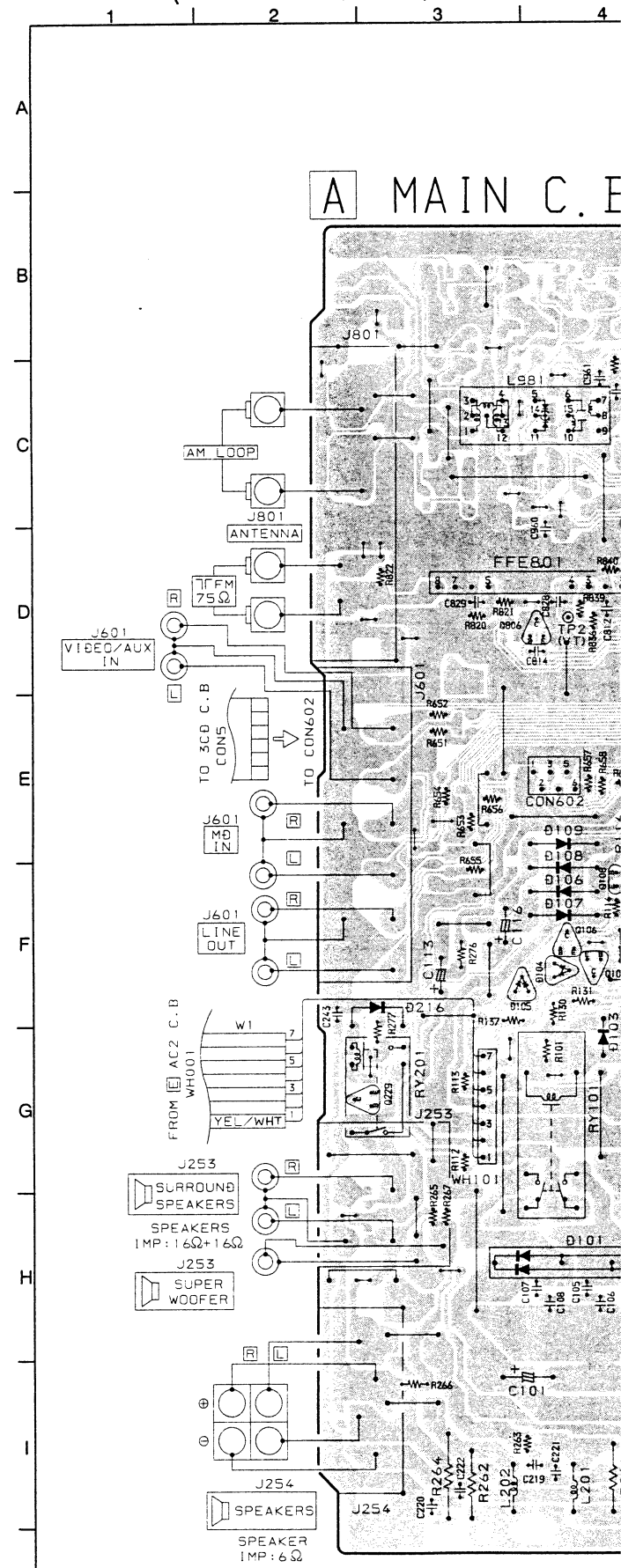
IC, BH810FS



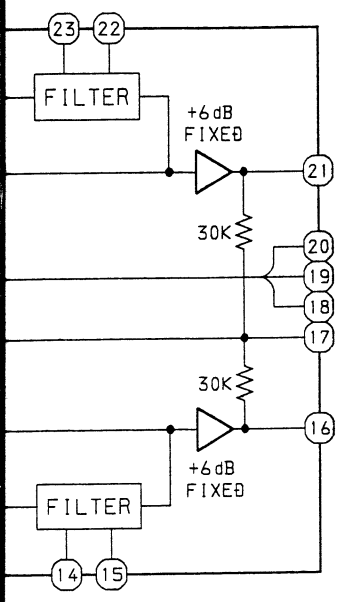
IC, BA3835S

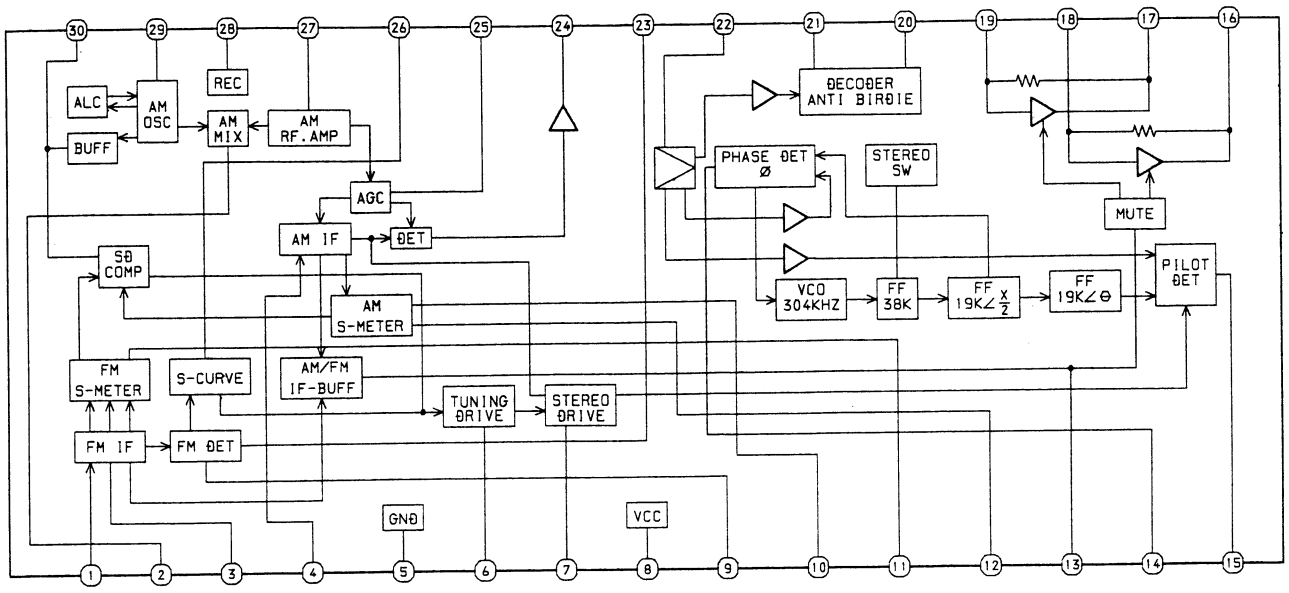


WIRING – 2 (MAIN : 70LH, 74LH)

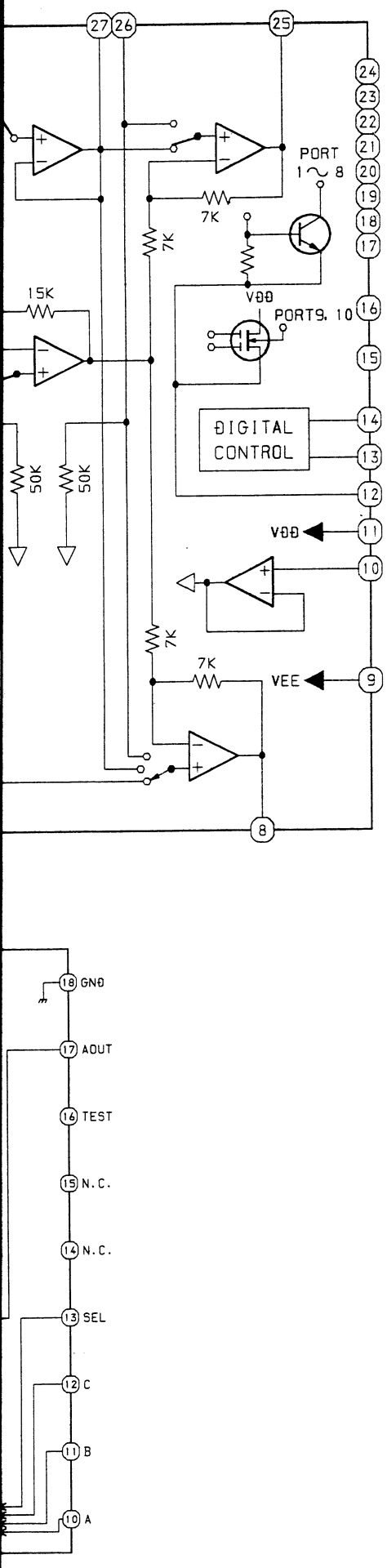


IC, LA1837

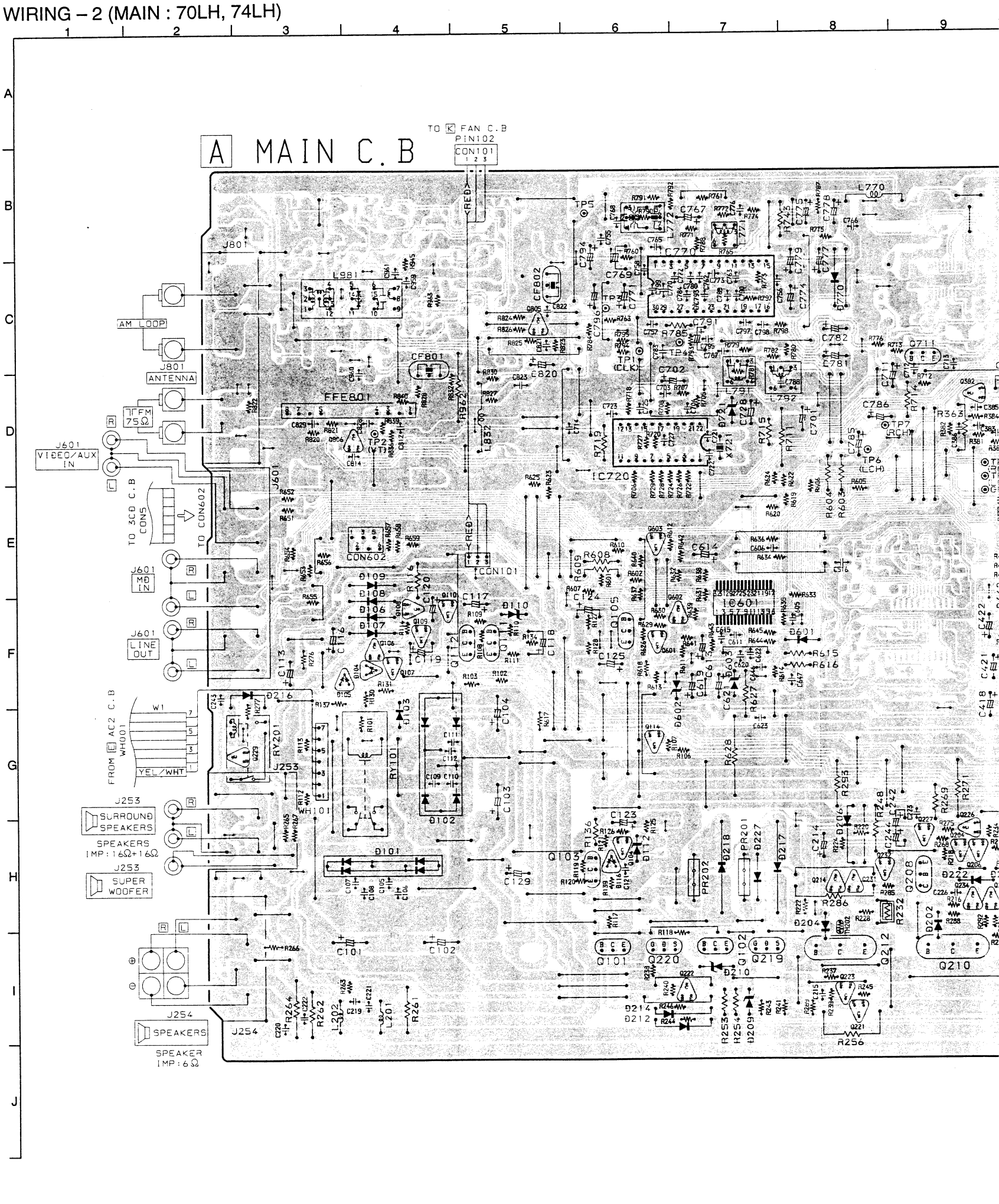




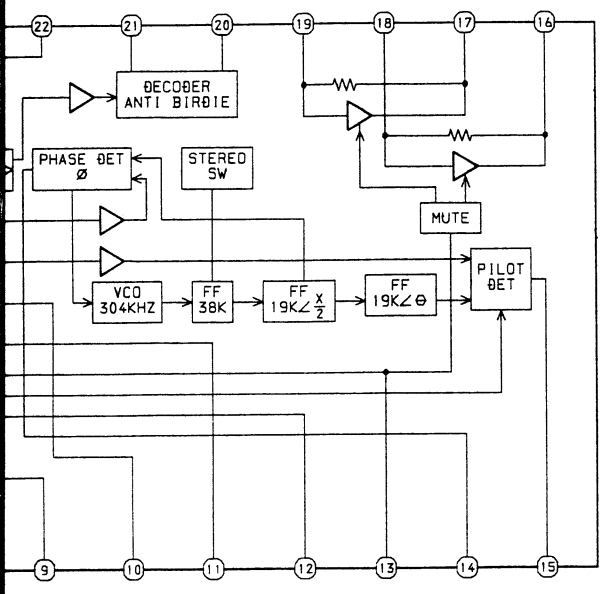
IC, BU9262FS

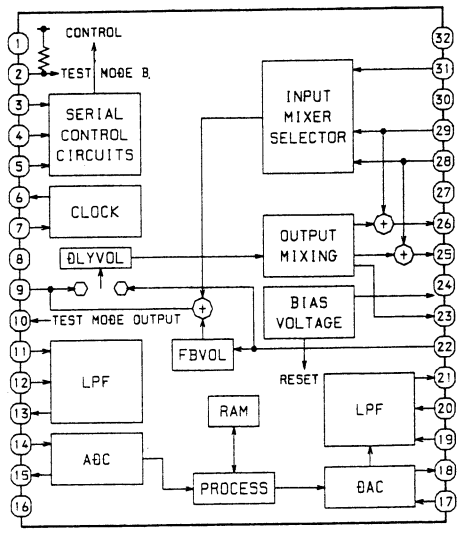


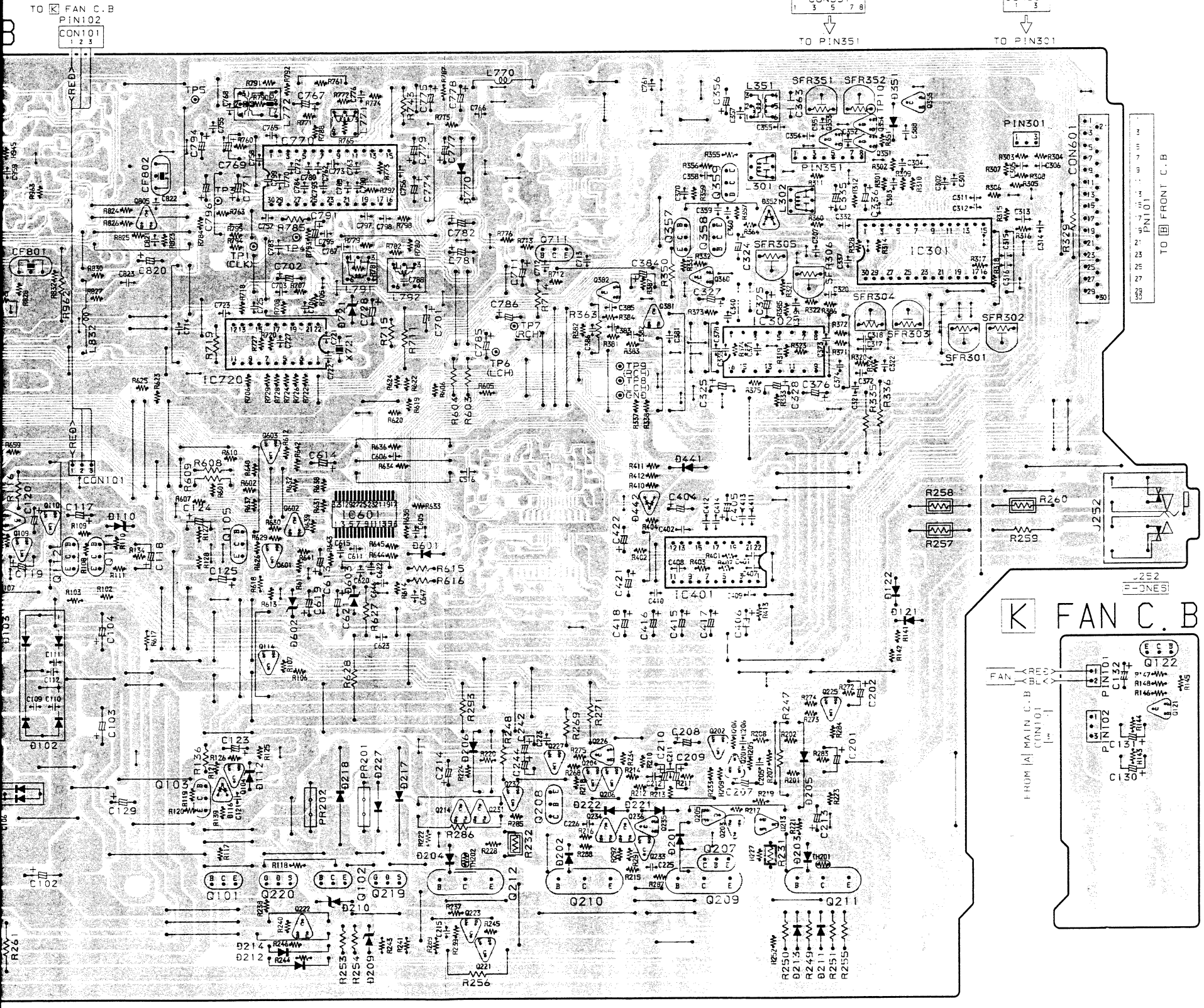
WIRING – 2 (MAIN : 70LH, 74LH)



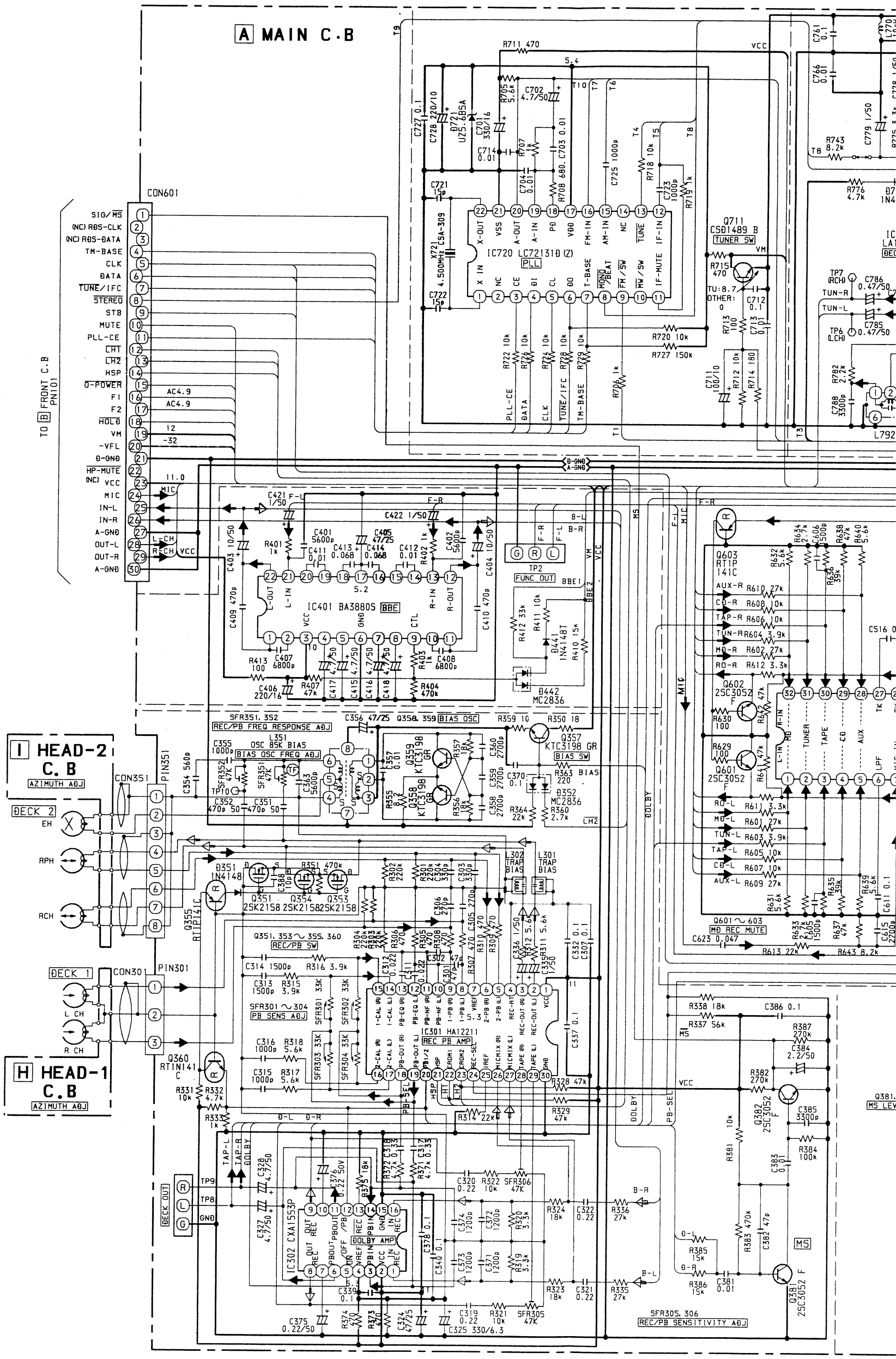
IC, BU9262FS


DECODER
ANTI BIRDIE
PHASE DET
Ø
STEREO
SW
MUTE
PILOT
DET
VCO
304KHZ
FF
38K
FF
19K∠ X/2
FF
19K∠Θ

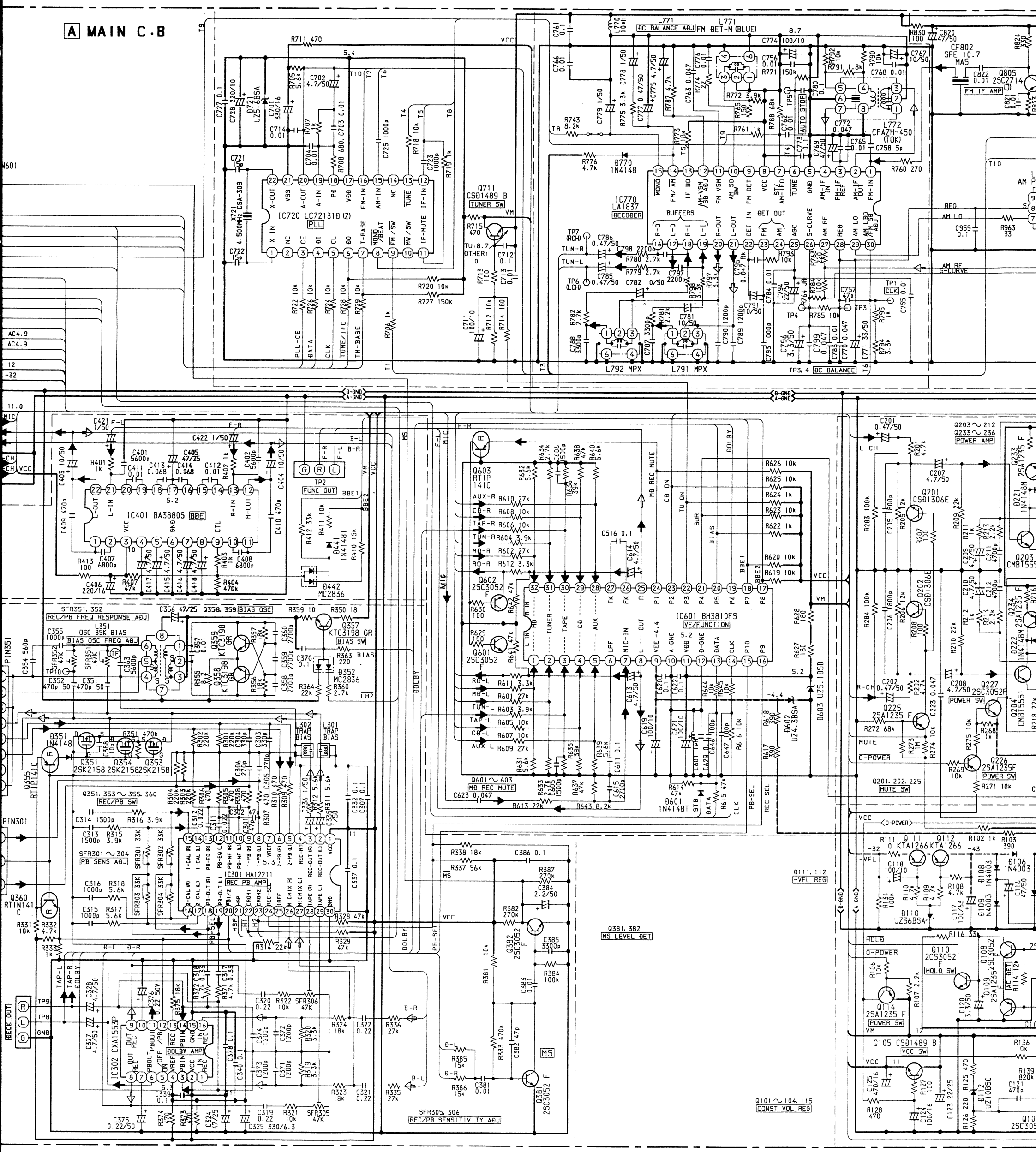

CONTROL
TEST MODE B.
SERIAL
CONTROL
CIRCUITS
CLOCK
DLYVOL
TEST MODE OUTPUT
LPF
A&C
RAM
PROCESS
INPUT
MIXER
SELECTOR
OUTPUT
MIXING
BIAS
VOLTAGE
FBVOL
RESET
LPF
D/AC

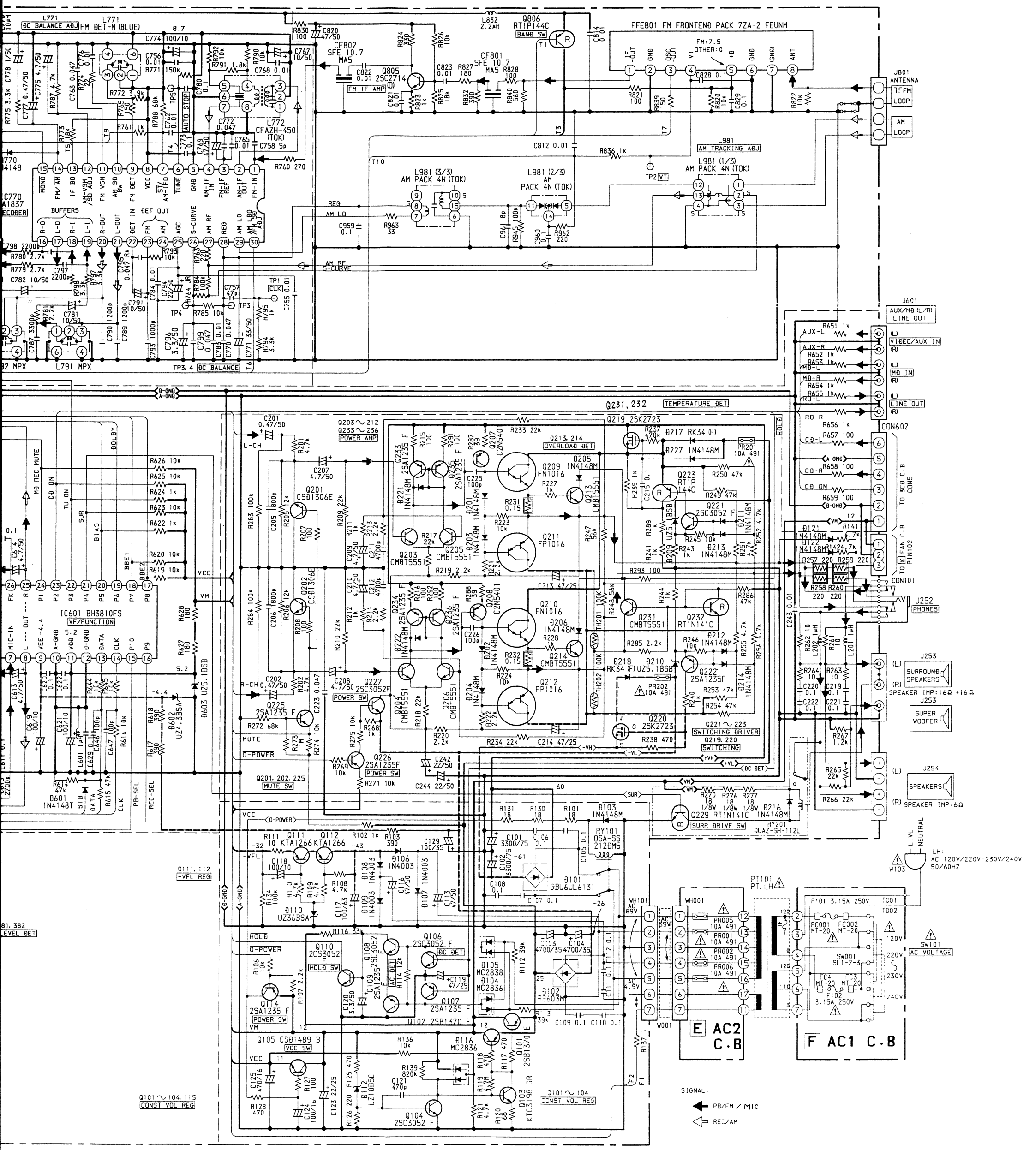

TO K FAN C.B
PIN102
CON101
FROM I HEAD-2 C.B
CON351
TO PIN351
FROM H HEAD-1 C.B
CON301
TO PIN301
TO B FRONT C.B
PN101
IC301
IC302
IC720
IC401
IC601
SFR351
SFR352
SFR305
SFR306
SFR304
SFR303
SFR302
SFR301
J252
PHONES
K FAN C.B
FROM A MAIN C.B
CON101
PIN101
PIN102

SCHEMATIC DIAGRAM – 2 (MAIN : 70LH, 74LH)

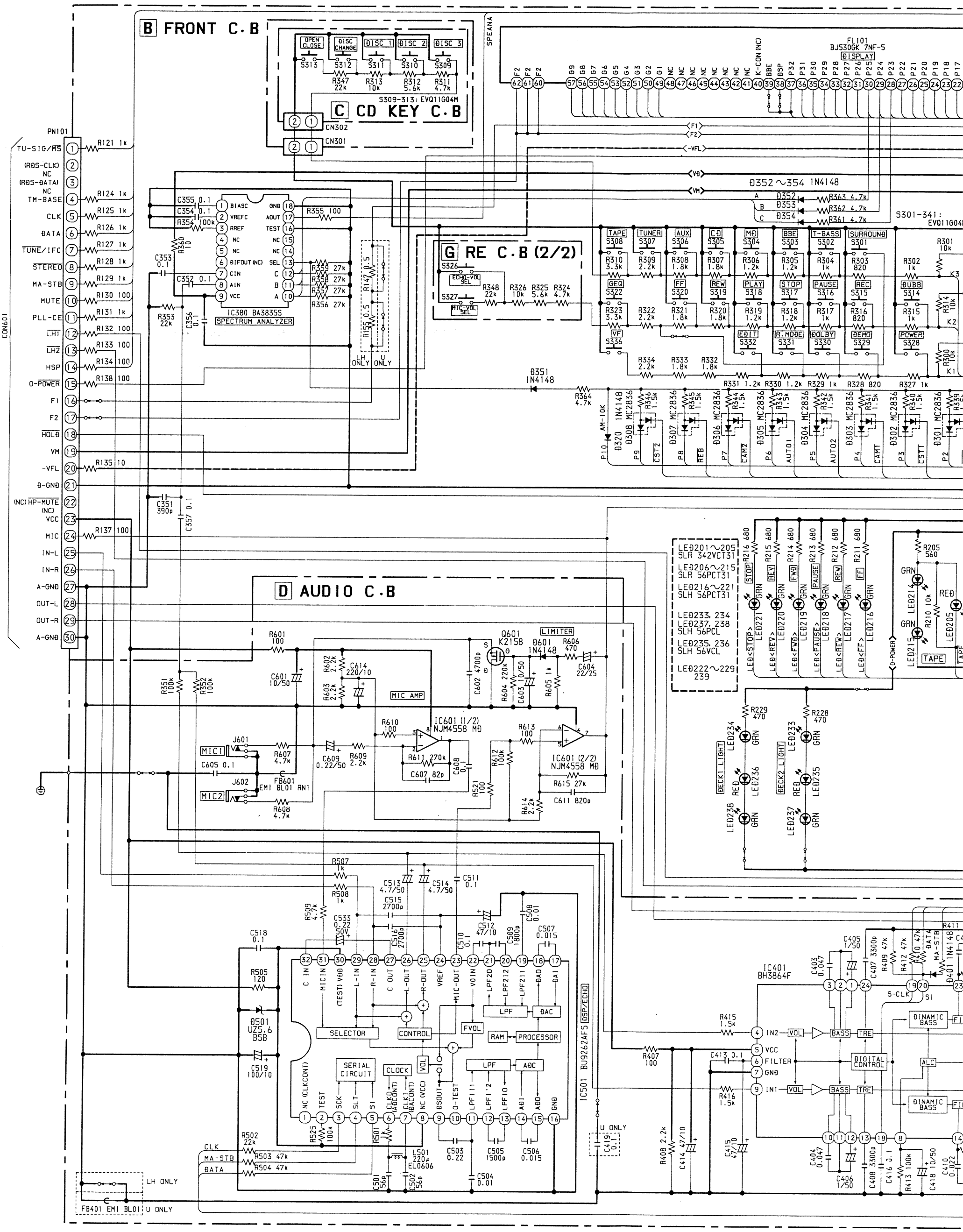


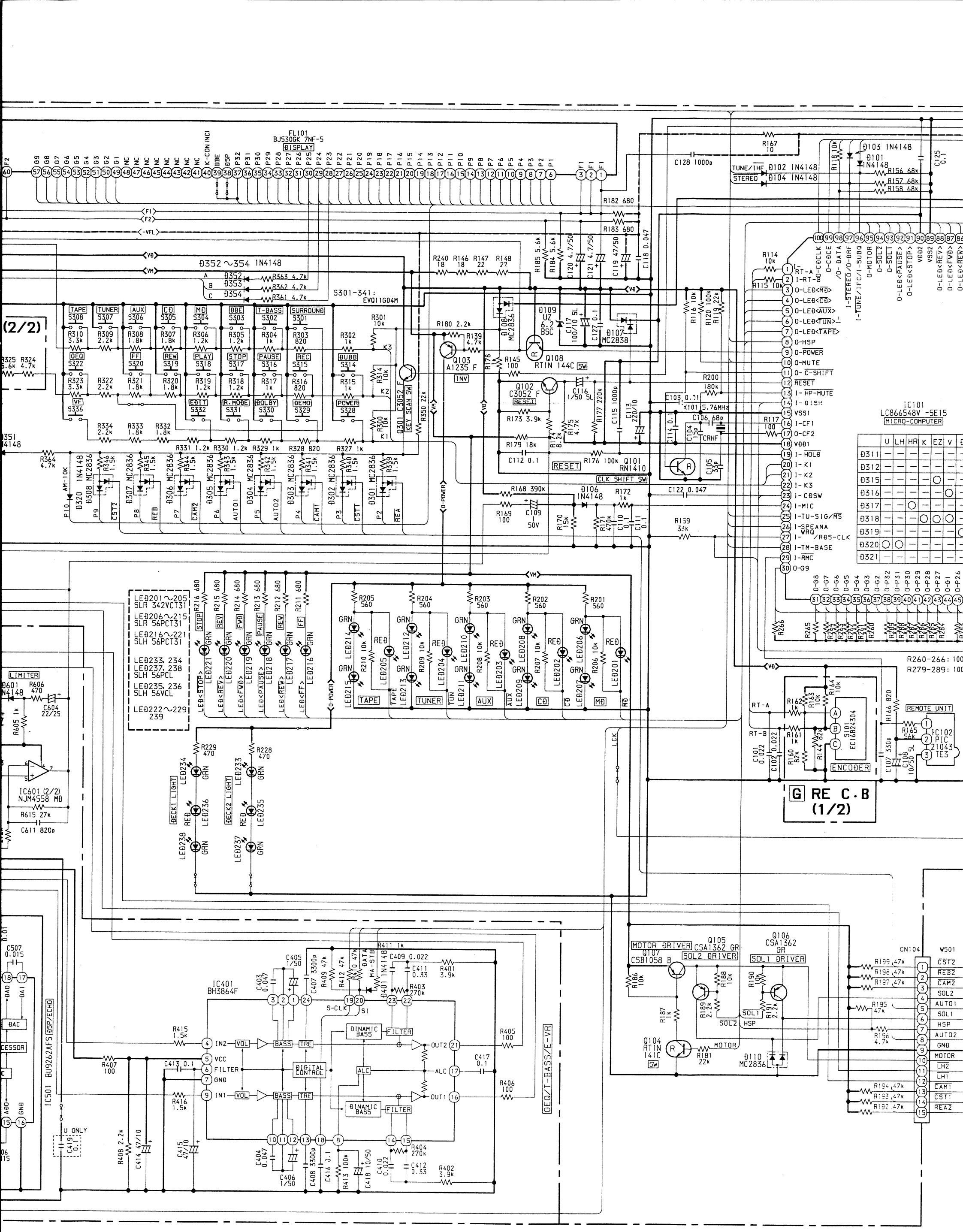
A MAIN C.B

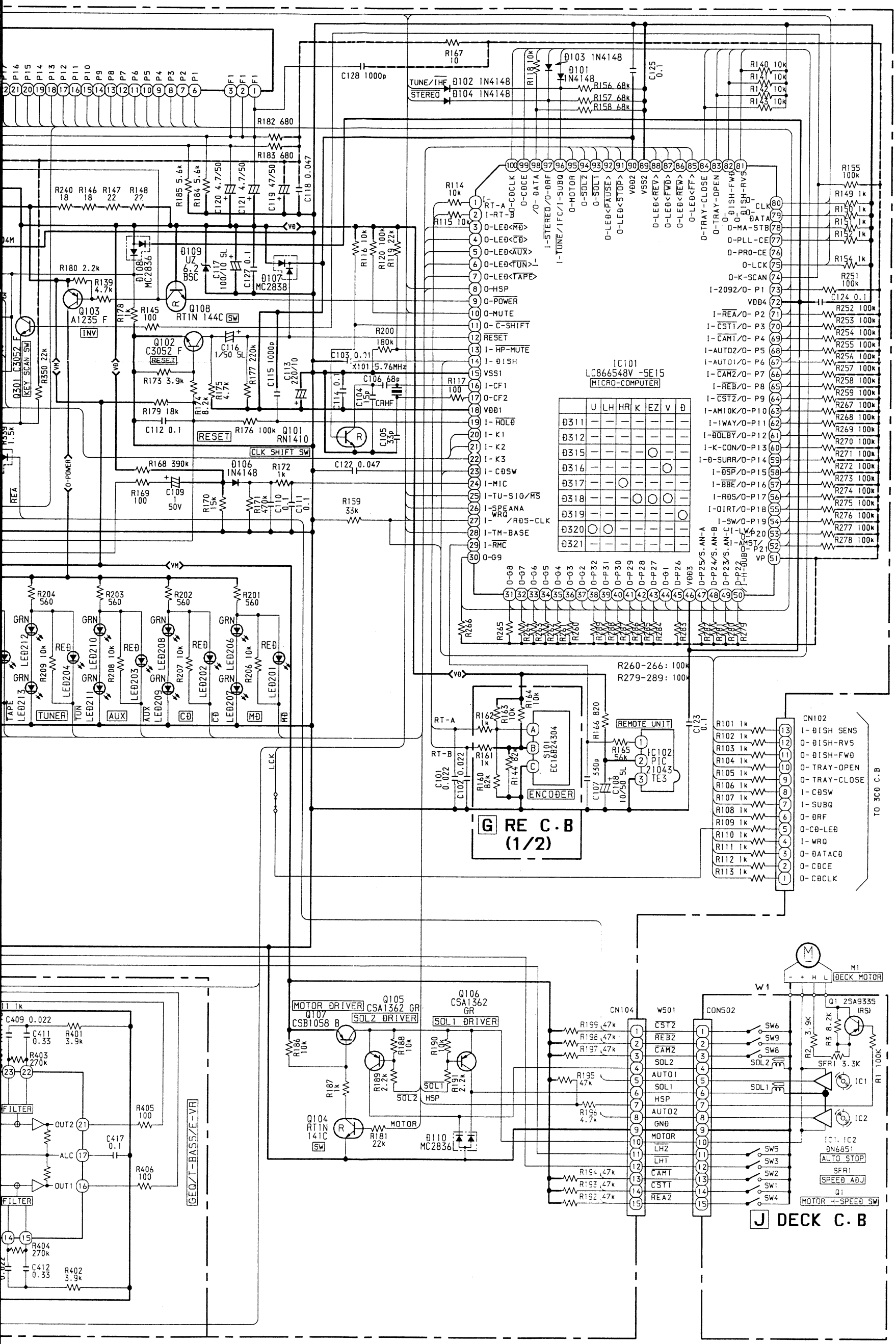

IC720 LC72131B (Z)
PLL
IC770 LA1837
DECODER
IC601 BH3810FS
VF/FUNCTION
IC401 BA3880S BBE
IC302 CXA1553P
DOLBY AMP
[C301 HA12211
REC PB AMP
Q603 RTIP 141C
Q602 2SC3052 F
Q601 2SC3052 F
Q603 UZ5.1BSB
Q602 UZ4.3BSA
Q601 1N4148T
Q382 2SC3052 F
Q381 2SC3052 F
Q357 KTC3198 GR
Q359 KTC3198 GR
Q358 KTC3198 GR
Q351 2SK2158
Q354 2SK2158
Q353 2SK2158
Q355 RTIP141C
Q360 RTIN141 C
Q711 CSB1489 B
TUNER SW
Q201 CSB1306E
Q202 CSB1306E
Q203 CMBT555
Q204 CMBT5551
Q221 2SA1235 F
Q222 2SA1235 F
Q225 2SA1235 F
Q226 2SA1235F
Q227 2SC3052F
Q233 2SA1235 F
Q234 2SA1235 F
Q805 2SC2714
Q105 CSB1489 B
VCC SW
Q110 2CS3052 F
HOLD SW
Q114 2SA1235 F
POWER SW
Q108 2SC3052 F
Q109 2SA1235 F
AC DET
Q111 KTA1266
Q112 KTA1266
CF802 SFE 10.7 MA5
L771 FM DET-N (BLUE)
L772 CFAZH-450 (TOK)
L792 MPX
L791 MPX
L301 TRAP BIAS
L302 TRAP BIAS
L351 OSC 85K BIAS
BIAS OSC FREQ ADJ
L771 DC BALANCE ADJ
TP3, 4 DC BALANCE
TP2 FUNC OUT
TP1 CLK
TP4
TP5 AUTO STOP
TP6 (LCH)
TP7 (RCH)
TUN-R
TUN-L
D770 1N4148
D771 1N4148T
D441 1N4148T
D442 MC2836
D352 MC2836
D351 1N4148
D603 UZ5.1BSB
D602 UZ4.3BSA
D601 1N4148T
D221 1N4148M
D222 1N4148M
D203 1N4003
D204 1N4003
D106 1N4003
D108 1N4003
D109 1N4003
D110 UZ10B5C
D112 UZ10B5C
REC/PB FREQ RESPONSE ADJ
REC/PB SENS ADJ
REC/PB SW
PB SENS ADJ
BIAS OSC
BIAS SW
MD REC MUTE
DOLBY
MUTE
SFR305, 306
REC/PB SENSITIVITY ADJ
Q381, 382
MS LEVEL DET
Q111, 112
-VFL REG
Q101 ~ 104, 115
CONST VOL REG
Q201, 202, 225
MUTE SW
POWER AMP
POWER SW
FM IF AMP
AM RF S-CURVE
BUFFERS
DET OUT
VCC
VM
MIC
F-L
F-R
B-L
B-R
R-CH
L-CH
O-POWER
HOLD
BECK OUT
TAP-L
TAP-R
PIN351
PIN301
AC4.9
11.0
5.4
5.2
-4.4
-32
-43
-VFL
12

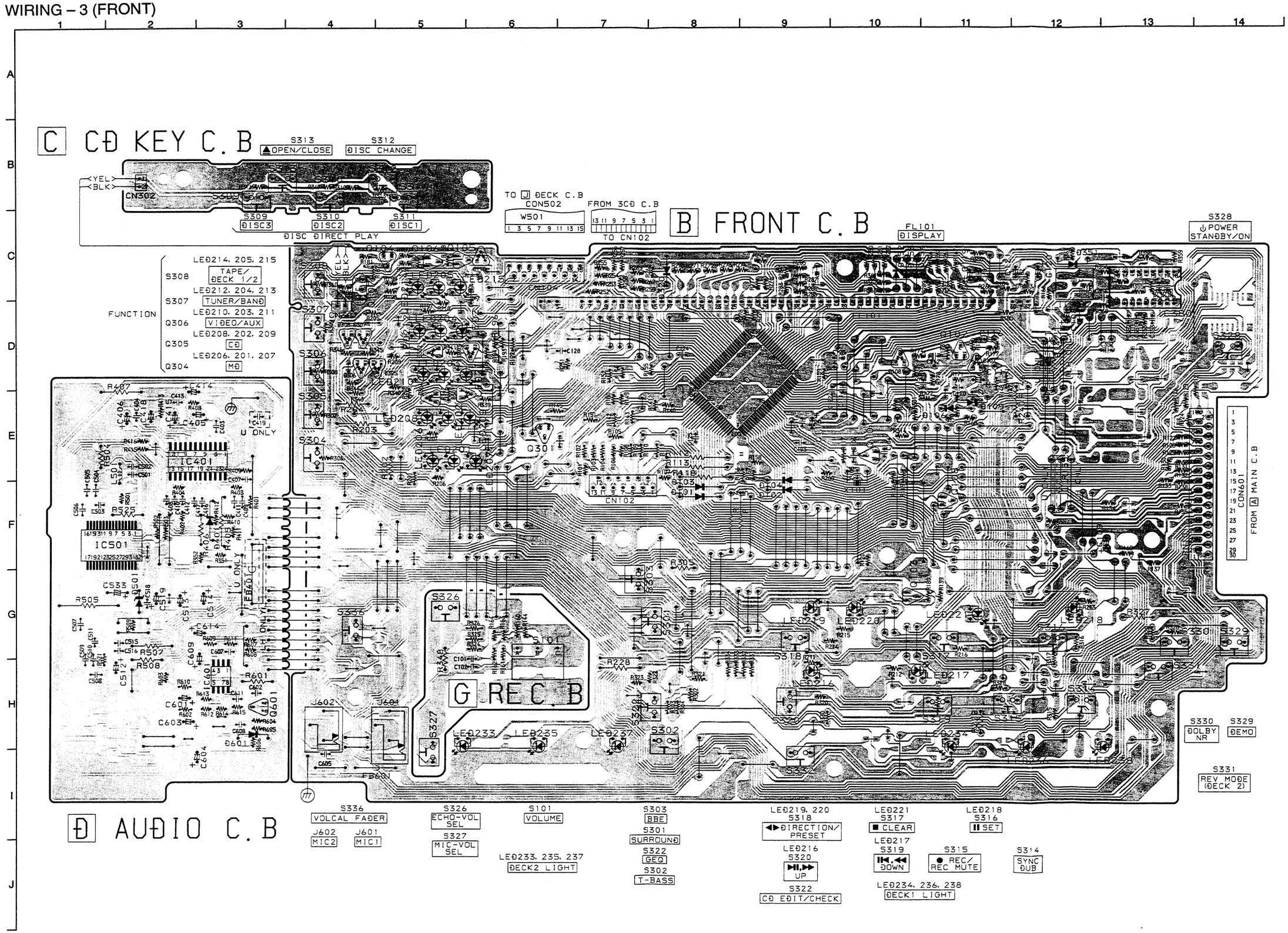

L771 DC BALANCE ADJ
L771 FM DET-N (BLUE)
L772 CFAZH-450 (TOK)
CF802 SFE 10.7 MA5
CF801 SFE 10.7 MA5
Q805 2SC2714 (O)
FM IF AMP
Q806 RT1P144C
BAND SW
L832 2.2µH
FFE801 FM FRONTEND PACK 7ZA-2 FEUNM
FM:7.5 OTHER:0
J801 ANTENNA
L981 AM TRACKING ADJ
L981 (3/3) AM PACK 4N (TOK)
L981 (2/3) AM PACK 4N (TOK)
L981 (1/3) AM PACK 4N (TOK)
TP2 VT
BUFFERS
DET OUT
AM RF S-CURVE
TP1 CLK
TP3, 4 DC BALANCE
L791 MPX
J601 AUX/MD (L/R) LINE OUT
VIDEO/AUX IN
MD IN
LINE OUT
CON602
TO 3CD C.B CON5
TO FAN C.B PIN102
CON101
J252 PHONES
J253 SURROUND SPEAKERS
SPEAKER IMP:16Ω +16Ω
J253 SUPER WOOFER
J254 SPEAKERS
(R) SPEAKER IMP:6Ω
IC601 BH3810FS VF/FUNCTION
Q231, 232 TEMPERATURE DET
Q203 ~ 212 Q233 ~ 236 POWER AMP
Q213, 214 OVERLOAD DET
Q219 2SK2723
Q201 CSD1306E
Q202 CSD1306E
Q227 2SC3052F POWER SW
Q225 2SA1235 F
Q226 2SA1235F POWER SW
Q201, 202, 225 MUTE SW
Q220 2SK2723 SWITCHING DRIVER
Q219, 220 SWITCHING
Q221 ~ 223 SWITCHING DRIVER
Q229 RT1N141C
SURR DRIVE SW
RY201 QUAZ-SH-112L
RY101 OSA-SS 212DM5
Q111, 112 -VFL REG
Q101 ~ 104, 115 CONST VOL REG
Q101 ~ 104 CONST VOL REG
Q110 2CS3052 HOLD SW
Q111 KTA1266
Q112 KTA1266
Q114 2SA1235 F POWER SW
Q105 CSD1489 B VCC SW
Q106 2SC3052 F DC DET
Q107 2SA1235 F
Q102 2SB1370 F
Q104 2SC3052 F
Q103 KTC3198 GR
D101 GBU6JL6131
D102 RBS03M
WH101
WH001
W001
PT101 PT. LH
W103
SW101 AC VOLTAGE
F101 3.15A 250V
F102 3.15A 250V
E AC2 C.B
F AC1 C.B
LH: AC 120V/220V-230V/240V 50/60HZ
SIGNAL:
PB/FM / MIC
REC/AM

SCHEMATIC DIAGRAM – 3 (FRONT)

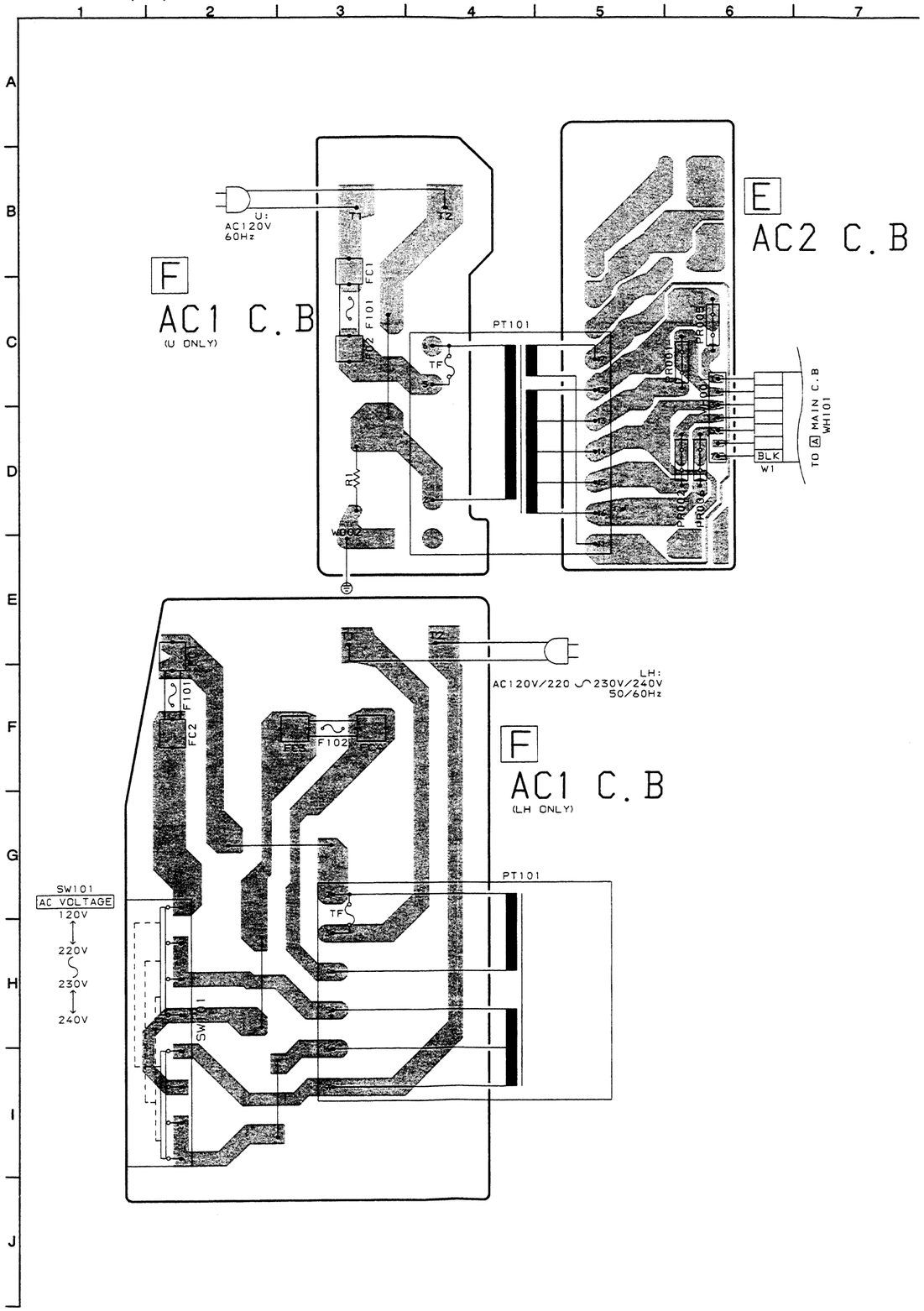



FL101
BJ530GK 7NF-5
DISPLAY
S301-341:
EVQ11G04M
D352~354 1N4148
IC101
LC866548V -5E15
MICRO-COMPUTER
IC601 (2/2)
NJM4558 MD
IC401
BH3864F
IC501 BU9262AFS
DSP/ECHO
IC102
PIC
21043
TE3
Q101
RN1410
Q102
C3052 F
Q103
A1235 F
Q104
RTIN
141C
Q105
CSA1362 GR
Q106
CSA1362
GR
Q107
CSB1058 B
Q108
RT1N 144C
D101
1N4148
D102 1N4148
D103 1N4148
D104 1N4148
D106
1N4148
D107
MC2838
D108
MC2836
D109
UZ
6.2
B5C
D110
MC2836
X101 5.76MHz
S101
EC16B24304
ENCODER
REMOTE UNIT
MOTOR DRIVER
SOL2 DRIVER
SOL1 DRIVER
KEY SCAN SW
CLK SHIFT SW
RESET
TAPE
TUNER
AUX
CD
MD
DECK1 LIGHT
DECK2 LIGHT
LIMITER
GEQ/T-BASS/E-VR
U ONLY
CN104
W501
G RE C.B
(1/2)

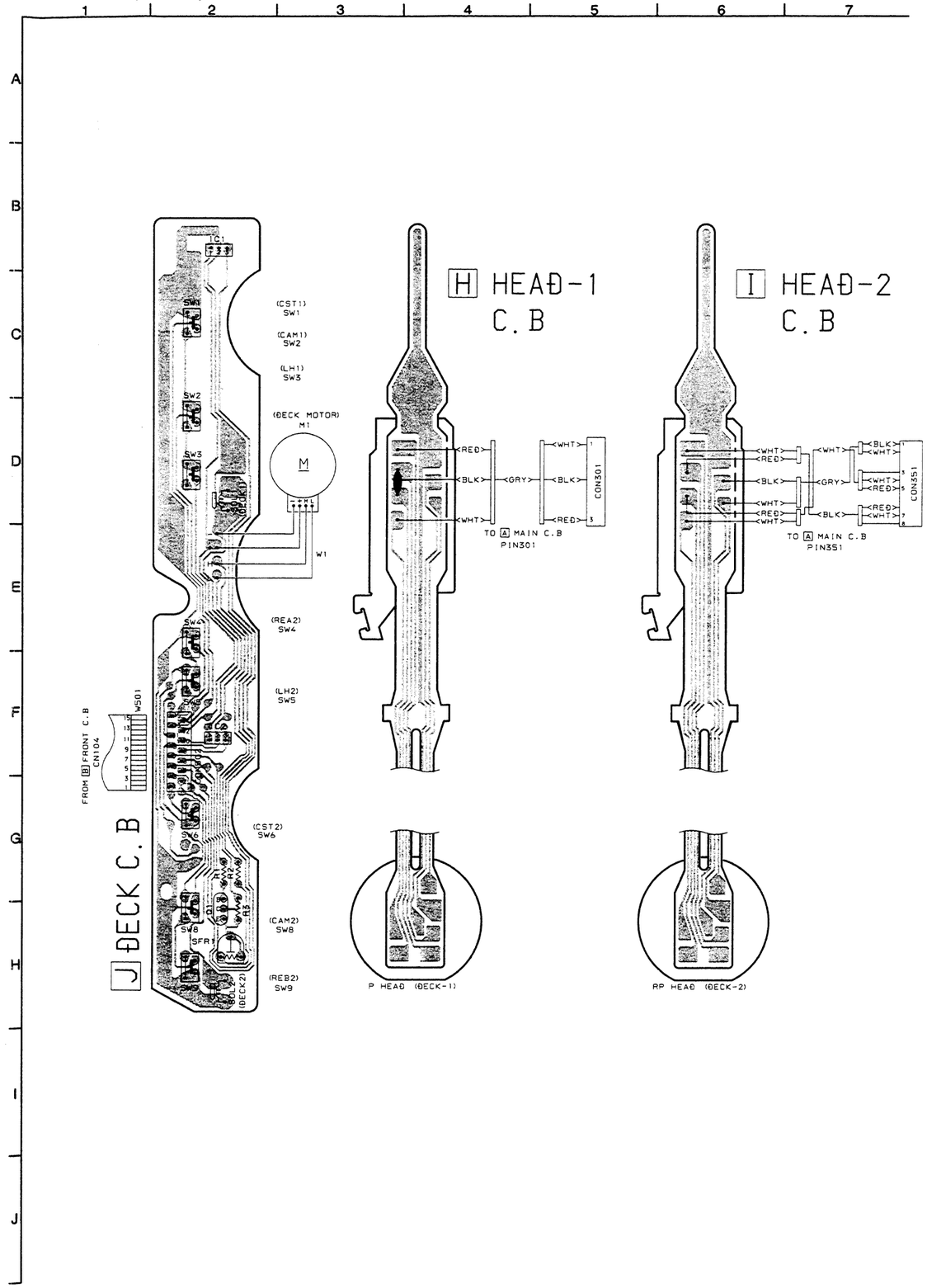

IC101
LC866548V -5E15
MICRO-COMPUTER
G RE C.B (1/2)
J DECK C.B
ENCODER
REMOTE UNIT
IC102 PIC 21043 TE3
S101 EC16B24304
MOTOR DRIVER
Q107 CSB1058 B
Q105 CSA1362 GR
SOL2 DRIVER
Q106 CSA1362 GR
SOL1 DRIVER
Q104 RT1N 141C
D110 MC2836
CN104
W501
CON502
CN102
M1 DECK MOTOR
Q1 2SA933S (RS)
IC1
IC2
AUTO STOP
SPEED ADJ
MOTOR H-SPEED SW
TO 3C0 C.B
GEQ/T-BASS/E-VR
R260-266: 100k
R279-289: 100k
TUNER
AUX
CD
MD
TAPE
KEY SCAN SW
RESET
CLK SHIFT SW
INV
TUNE/THF
STEREO


C CD KEY C.B
S313 OPEN/CLOSE
S312 DISC CHANGE
YEL
BLK
CN302
S309 DISC3
S310 DISC2
S311 DISC1
DISC DIRECT PLAY
TO DECK C.B CON502
W501
FROM 3CD C.B
TO CN102
B FRONT C.B
FL101 DISPLAY
S328 POWER STANDBY/ON
FUNCTION
LED214. 205. 215
S308 TAPE/ DECK 1/2
LED212. 204. 213
S307 TUNER/BAND
LED210. 203. 211
Q306 VIDEO/AUX
LED208. 202. 209
Q305 CD
LED206. 201. 207
Q304 MD
U ONLY
E,U ONLY
G REC.B
CN102
FROM MAIN C.B CON601
S336 VOLCAL FADER
J602 MIC2
J601 MIC1
S326 ECHO-VOL SEL
S327 MIC-VOL SEL
S101 VOLUME
LED233. 235. 237 DECK2 LIGHT
S303 BBE
S301 SURROUND
S322 GEQ
S302 T-BASS
LED219. 220 S318 DIRECTION/ PRESET
LED216 S320 UP
S322 CD EDIT/CHECK
LED221 S317 CLEAR
LED217 S319 DOWN
LED234. 236. 238 DECK1 LIGHT
LED218 S316 SET
S315 REC/ REC MUTE
S314 SYNC DUB
S330 DOLBY NR
S329 DEMO
S331 REV MODE (DECK 2)
D AUDIO C.B

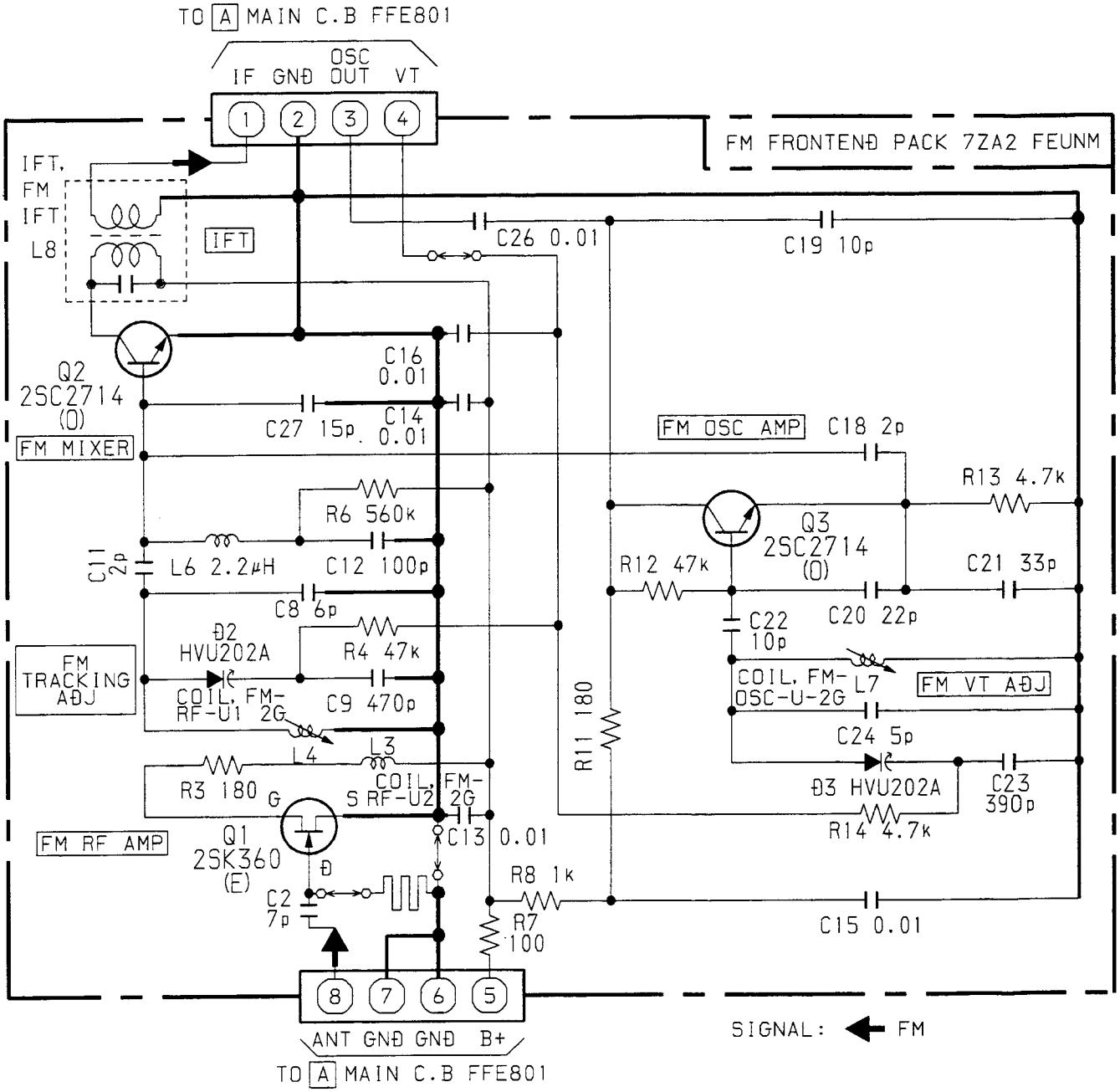
WIRING – 4 (PT)

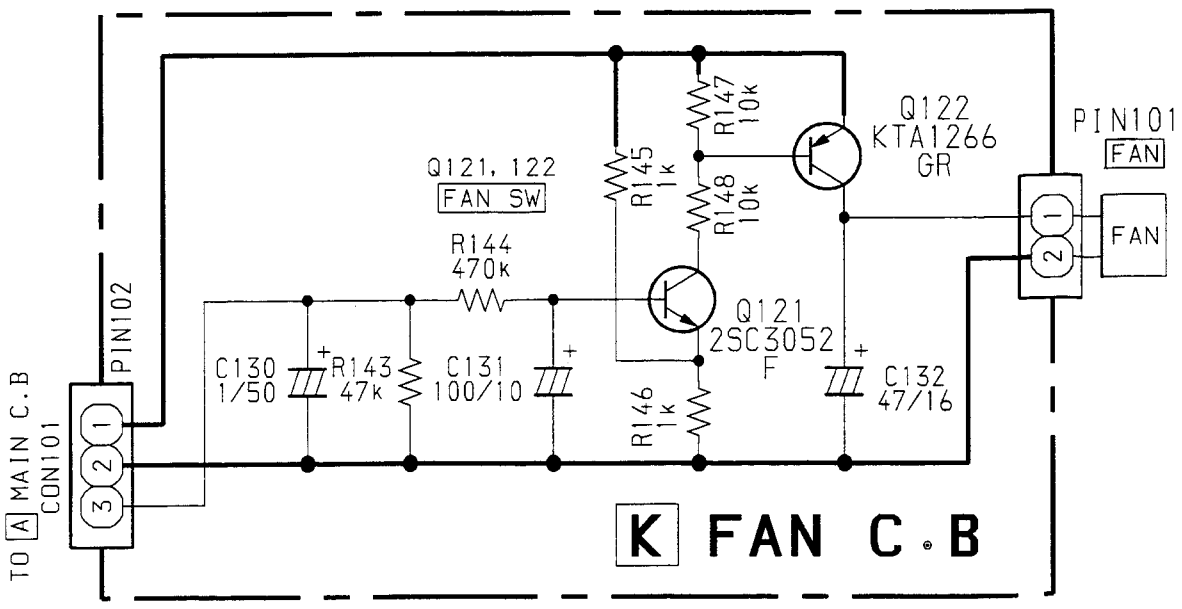


WIRING – 5 (DECK)



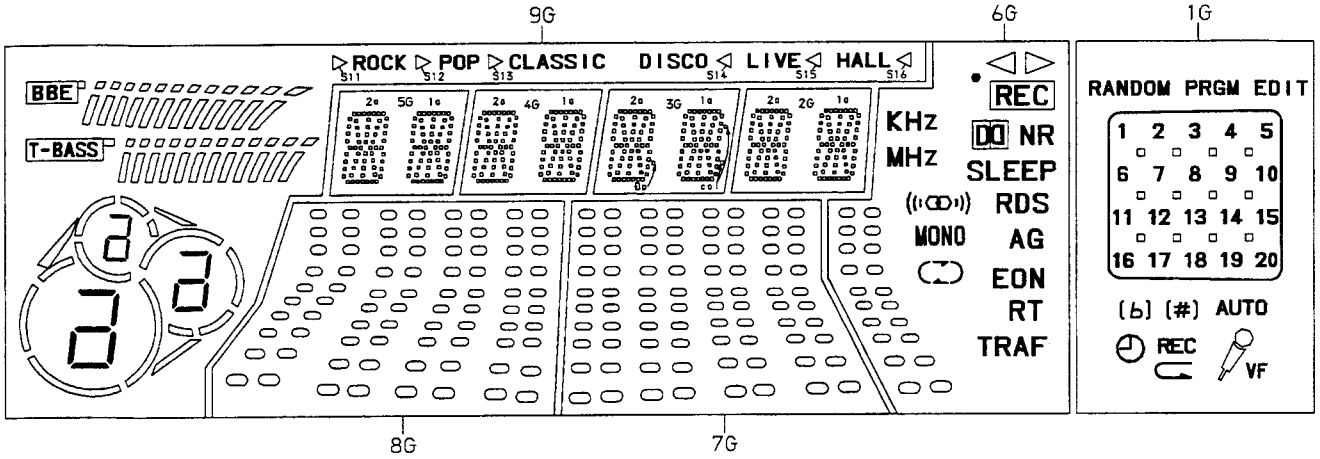
SCHEMATIC DIAGRAM – 4 (TUNER FRONTEND / FAN)

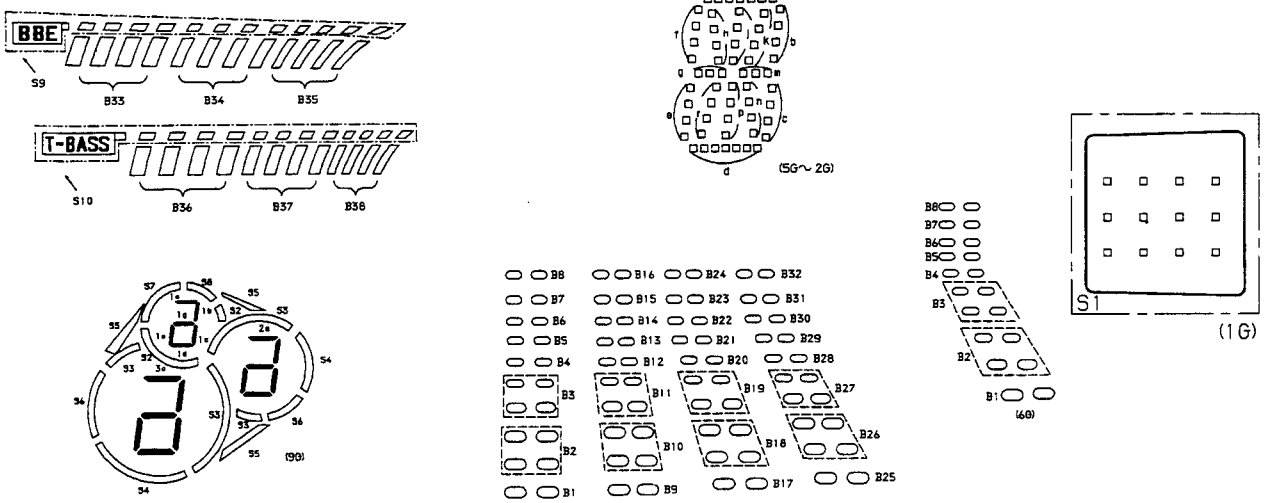




FL GRID ASSIGNMENT & ANODE CONNECTION

FL, BJ530 JK
GRID ASSIGNMENT





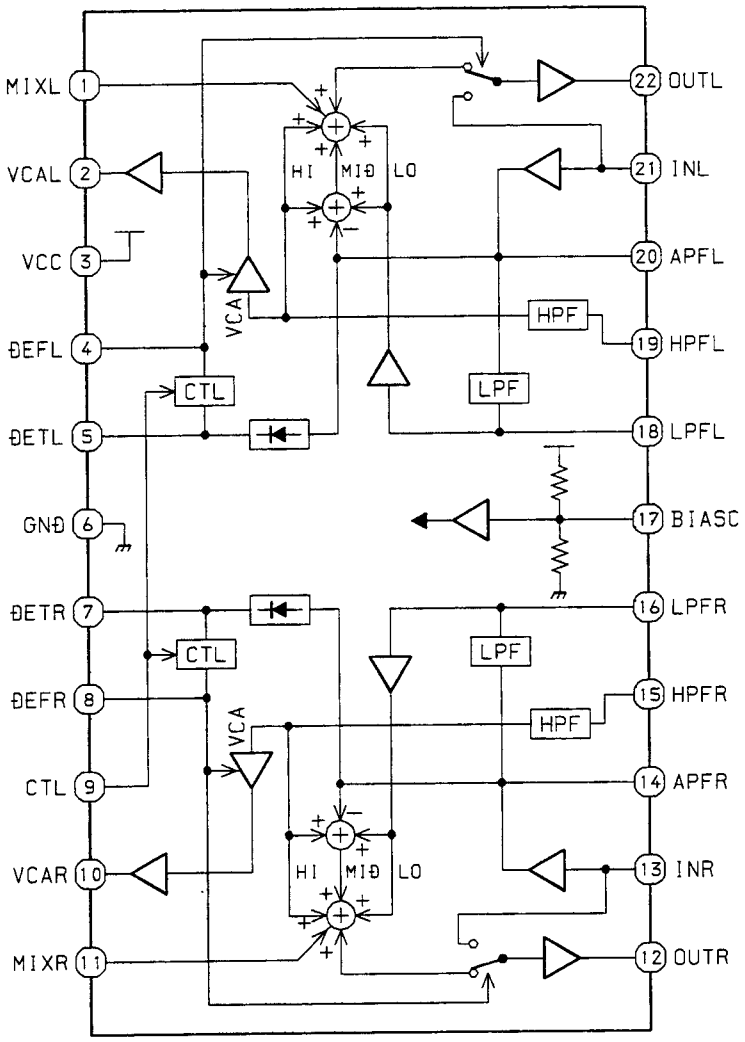
[8G, 7G]

ANODE CONNECTION

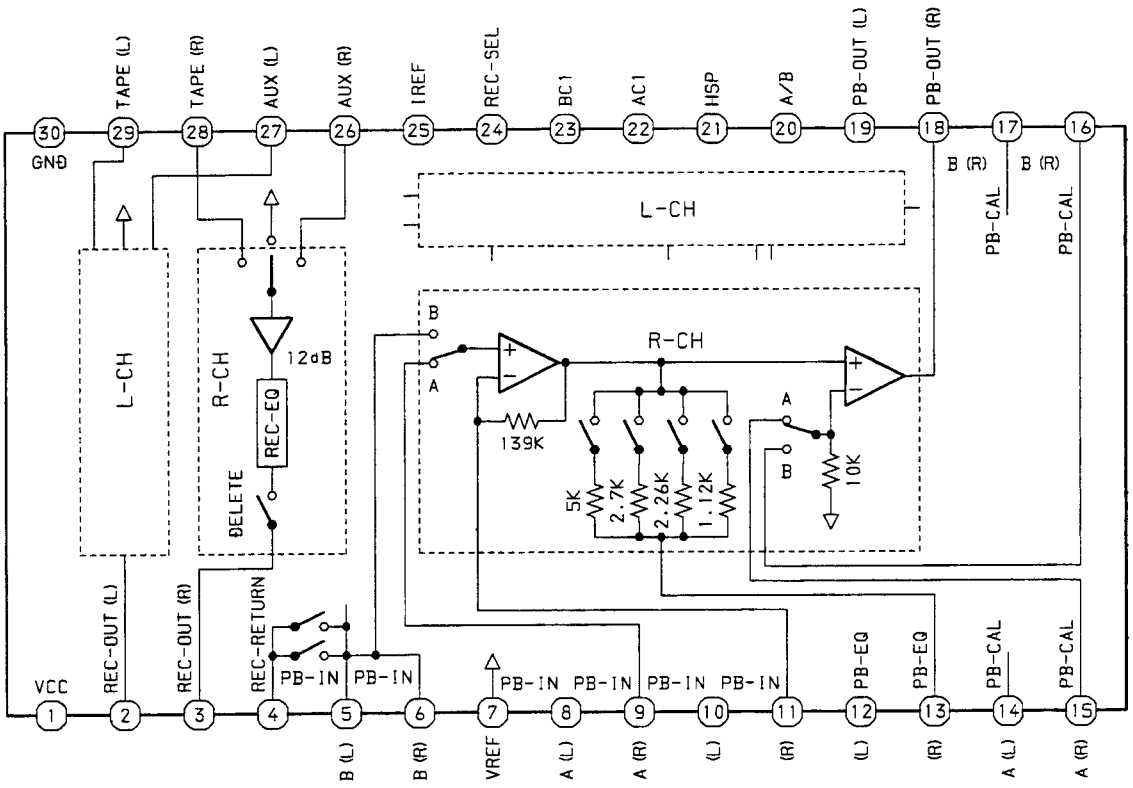
	9G	8G, 7G	6G	5G, 4G	3G	2G	1G
P1	S8	B32	▷	-	col (down)	-	RANDOM
P2	S2	B24	◁	1d	1d	1d	-
P3	1b	B16	SLEEP	1n	1n	1n	PRGM
P4	1c	B8	B8	1p	1p	1p	EDIT
P5	1e	B31	○	1r	1r	1r	1
P6	1a, 1d, 1g	B23	REC	1e	1e	1e	2
P7	2b	B15	KHz	1c	1c	1c	3
P8	2c	B7	B7	1g	1g	1g	4
P9	2e	B30	MHz	1m	1m	1m	5
P10	2a, 2d, 2g	B22	-	1f	1f	1f	6
P11	3b	B14	DD NR	1b	1b	1b	7
P12	3c	B6	B6	1k	1k	1k	8
P13	3e	B29	RDS	1j	1j	1j	9
P14	3a, 3d, 3g	B21	-	1h	1h	1h	10
P15	S3	B13	-	1a	1a	1a	11
P16	S5	B5	B5	-	col(up)	-	12
P17	S7	B28	-	-	Ðp	-	13
P18	S4	B20	-	2d	2d	2d	14
P19	S6	B12	-	2n	2n	2n	15
P20	S16	B4	B4	2p	2p	2p	16
P21	S15	B27	AG	2r	2r	2r	17
P22	S14	B19	((○○))	2e	2e	2e	18
P23	S13	B11	EON	2c	2c	2c	19
P24	S12	B3	B3	2g	2g	2g	20
P25	S11	B26	RT	2m	2m	2m	AUTO
P26	B36	B18	MONO	2f	2f	2f	VF
P27	B37	B10	TRAF	2b	2b	2b	◷
P28	B38	B2	B2	2k	2k	2k	REC
P29	B33	B25	)	2j	2j	2j	↩
P30	B34	B17	↯	2h	2h	2h	((#))
P31	B35	B9	(	2a	2a	2a	((b))
P32	ROCK POP CLASSIC S10	B1	B1	-	-	-	S1
P33	DISCO LIVE HALL	-	-	-	-	-	-
P34	S9	-	-	-	-	-	-
P35	-	-	-	-	-	-	b #

IC BLOCK DIAGRAM – 2

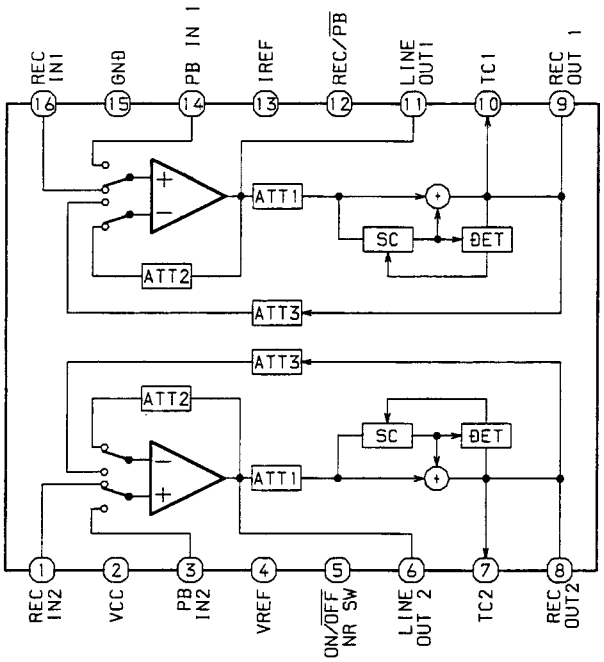
IC, BA3880S



IC, HA12211NT



IC, CXA1553P



ATT:Attenuator
SC:Side Chain
DET:Detector

IC DESCRIPTION

IC, LC866548V-5E15

Pin No.	Pin Name	I/O	Description
1	RT-A	I	Rotary encoder A input.
2	RT-B	I	Rotary encoder B input.
3	$\overline{\text{LED-MD}}$	O	"MD" LED $\overline{\text{ON}}$/OFF output.
4	$\overline{\text{LED-CD}}$	O	"CD " LED $\overline{\text{ON}}$/OFF output.
5	$\overline{\text{LED-AUX}}$	O	"AUX" LED $\overline{\text{ON}}$/OFF output.
6	$\overline{\text{LED-TUNER}}$	O	"TUNER" LED $\overline{\text{ON}}$/OFF output.
7	$\overline{\text{LED-TAPE}}$	O	"TAPE" LED $\overline{\text{ON}}$/OFF output.
8	HSP	O	Tape deck motor high speed ON/$\overline{\text{OFF}}$ output.
9	$\overline{\text{O-POWER}}$	O	System power supply $\overline{\text{ON}}$/OFF output.
10	O-MUTE	O	System mute ON/$\overline{\text{OFF}}$ output.
11	$\overline{\text{O-CLK-SHIFT}}$	O	U-COM clock shift output.
12	$\overline{\text{RESET}}$	I	Reset input.
13	$\overline{\text{I-HP-MUTE}}$	–	Not connected.
14	I-DISH	I	CD turntable photo sensor A/D converter input.
15	VSS 1	–	GND.
16	CF 1	–	5.76MHz oscillator circuit.
17	CF 2	–	
18	VDD 1	–	Power supply input.
19	$\overline{\text{HOLD}}$	I	Power failure detected input "1" to stop clock and main memory.
20	KEY-1	I	KEY input.(A/D)
21	KEY-2	I	
22	KEY-3	I	
23	I-CD SW	I	CD mechanical switch A/D converter input.
24	I-MIC	I	Microphone input for AUTO VF display.
25	I-TU-SIG/$\overline{\text{MS}}$	I	Tuner signal and deck music sensor signal input.
26	I-SPEANA	I	A/D input for spectrum analyzer display.
27	I-WRQ/RDS-CLK	I	CD WRQ input . TUNER RDS CLOCK input.
28	I-TM-BASE	I	REFERENCE CLOCK input for timer watch.
29	I-$\overline{\text{RMC}}$	I	System remote control signal input.
30~37	G9~G2	O	FL GRID output G2~G9.
38~43	P32~P27	O	FL SEGMENT output P27~P32.
44	G1	O	FL grid output G1.
45	P26	–	FL SEGMENT output P26.
46	VDD3	–	Power supply input.
47	SPEANA-A/P25	O	Spectrum analyzer band switching output /FL segment P25 output.
48	SPEANA-B/P24	O	Spectrum analyzer band switching output /FL segment P24 output.
49	SPEANA-C/P23	O	Spectrum analyzer band switching output /FL segment P23 output.
50	P22/H-DUBB INH	I /O	FL segment P22 output / high dubbing inhibit input to diode.
51	VP	–	Power supply input for FL display.
52	P21/AM-ST	I /O	FL segment P21 output / AM stereo input to diode.
53	P20/LW	I/O	FL segment P20 output / LW mode data input to diode.
54	P19/SW	I/O	FL segment P19 output / SW mode data input to diode.

Pin No.	Pin Name	I/O	Description
55	P18/FM 1	I/O	FL segment P18 output / FM1 (OIRT) data input to diode.
56	P17/RDS	I/O	FL segment P17 output / RDS data input to diode.
57	P16/BBE	I/O	FL segment P16 output / BBE data input to diode.
58	P15/DSP	I/O	FL segment P15 output / DSP data input to diode.
59	P14/DOLBY-SURR	I/O	FL segment P14 output / DOLBY-SURR data input to diode.
60	P13/K-CON	I/O	FL segment P13 output / K-CON data input to diode.
61	P12/DOLBY	I/O	FL segment P12 output / DOLBY data input to diode.
62	P11/WAY	I/O	FL segment P11 output / DECK/WAY MECHA data input to diode.
63	P10/AM-9K/10K	I/O	FL segment P10 output / INITIAL AM 10 kHz step data input to diode.
64	P9/CST 2	I/O	FL segment P9 output / DECK2 cassette detect switch data input.
65	P8/REB	I/O	FL segment P8 output / DECK2 side-B record OK switch data input.
66	P7/CAM 2	I/O	FL segment P7 output / DECK2 CAM switch data input.
67	P6/AUTO 1	I/O	FL segment P6 output / DECK1 AUTO stop signal input.
68	P5/AUTO 2	I/O	FL segment P5 output / DECK2 AUTO stop signal input.
69	P4/CAM 1	I/O	FL segment P4 output / DECK1 CAM switch data input.
70	P3/CST 1	I/O	FL segment P3 output / DECK1 cassette detect switch data input.
71	P2/REA	I/O	FL segment P2 output / DECK2 side A record OK switch data input.
72	VDD 4	–	Power supply input.
73	P1/2092	I/O	FL segment P1 output / SHIFT resistor IC 2092 data input to diode.
74	K-SCAN	O	Switch SCAN timing output.
75	L CK	O	Latch clock output for front shift resistor.
76	PRO-CE	O	PRO LOGIC IC chip enable output.
77	PLL-CE	O	PLL IC chip enable output.
78	MA-STB	O	Latch strobe output for MAIN PWB.
79	DATA	O	DATA output for MAIN, FORNT, PROLOGIC PWB.
80	CLK	O	CLOCK output for MAIN,FORNT, PROLOGIC PWB.
81	DISH-RVS	O	CD turntable reverse rotation output.
82	DISH-FWD	O	CD turntable forward rotation output.
83	TRAY-OPEN	O	CD TRAY OPEN data output.
84	TRAY-CLOSE	O	CD TRAY CLOSE data output.
85	$\overline{\text{LED}}$ ▶▶	O	▶▶ LED $\overline{\text{ON/OFF}}$ output.
86	$\overline{\text{LED}}$ ◀◀	O	◀◀ LED $\overline{\text{ON/OFF}}$ output.
87	$\overline{\text{LED}}$ ▶	O	▶ LED $\overline{\text{ON/OFF}}$ output.
88	$\overline{\text{LED}}$ ◀	O	◀ LED $\overline{\text{ON/OFF}}$ output.
89	VSS 2	–	GND.
90	VDD 2	–	Power supply input.
91	$\overline{\text{LED}}$ ■	O	■ LED $\overline{\text{ON/OFF}}$ output.
92	$\overline{\text{LED}}$ ❚❚	O	❚❚ LED $\overline{\text{ON/OFF}}$ output.
93	$\overline{\text{SOL 1}}$	O	DECK 1 Solenoid output.
94	$\overline{\text{SOL 2}}$	O	DECK 2 Solenoid output.
95	O-MOTOR	O	DECK MOTOR ON/$\overline{\text{OFF}}$ output.
96	I-IFC/I-SUB Q	I	Tune IF count serial data input /CD SUB Q data input.

Pin No.	Pin Name	I/O	Description
97	I-STEREO/O-SQCLK	I/O	Tuner stereo detected input/CD SQ CLOCK output.
98	I-RDS-DATA/O-DATA	I/O	RDS data input/CD data output.
99	O-CD CE	O	CD CE output.
100	O-CD CLK	O	CD CLOCK output.

IC, LC72131

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>XIN</td><td rowspan="2">I/O</td><td rowspan="2">A crystal oscillator (7.2MHz) is connected between these pins.</td></tr>
<tr><td>22</td><td>XOUT</td></tr>
<tr><td>2</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>3</td><td>CE</td><td>I</td><td>To enable the IC. Active "H".</td></tr>
<tr><td>4</td><td>DI</td><td>I</td><td>Digital data input from CPU (LC866548V-5E15) when relevant key is operated. Active "H".</td></tr>
<tr><td>5</td><td>CLK</td><td>I</td><td>To clock in the data DI.</td></tr>
<tr><td>6</td><td>DO</td><td>O</td><td>Digital data output to CPU (LC866548V-5E15).</td></tr>
<tr><td>7</td><td>TM-BASE</td><td>O</td><td>Outputs a reference clock signal (8Hz) for the clock.</td></tr>
<tr><td>8</td><td>$\overline{\text{MONO}}$ / BEAT</td><td>O</td><td>Outputs "H" when MONO / BEAT is switched.</td></tr>
<tr><td>9</td><td>$\overline{\text{FM}}$ / AM</td><td>O</td><td>Output "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>MW</th><th>SW</th><th>FM</th></tr>
<tr><td>H</td><td>L</td><td>H</td><td>H</td><td>L</td><td>H</td><td>L</td><td>L</td></tr>
</table></td></tr>
<tr><td>10</td><td>$\overline{\text{MW}}$</td><td>O</td><td>Outputs "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>MW</th><th>SW</th><th>FM</th></tr>
<tr><td>L</td><td>L</td><td>H</td><td>L</td><td>L</td><td>L</td><td>H</td><td>L</td></tr>
</table></td></tr>
<tr><td>11</td><td>IF-MUTE</td><td>O</td><td>To control internal counter.</td></tr>
<tr><td>12</td><td>IFIN</td><td>I</td><td>General purpose counter input.</td></tr>
<tr><td>13</td><td>TUNE</td><td>I</td><td>Receives "L" when station is tuned.</td></tr>
<tr><td>14</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>15</td><td>A MIN</td><td>I</td><td>Receives the AM local oscillator frequency signal.</td></tr>
<tr><td>16</td><td>F MIN</td><td>I</td><td>Receives the FM local oscillator frequency signal.</td></tr>
<tr><td>17</td><td>VDD</td><td>–</td><td>Supply power to IC (+5V).</td></tr>
<tr><td>18</td><td>PD</td><td>O</td><td>PLL charge pump output.</td></tr>
<tr><td>19</td><td>AIN</td><td>I</td><td rowspan="2">The MOS transistor for PLL active low pass filter.</td></tr>
<tr><td>20</td><td>AOUT</td><td>O</td></tr>
<tr><td>21</td><td>VSS</td><td>–</td><td>Ground.</td></tr>
</table>

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity :	4dB ± 6dB
(THD 3%)	[at 87.5 / 98.0 / 108.0MHz]
S/N 50dB Quieting sensitivity :	
	30dB ± 6dB
	[at 87.5 / 98.0 / 108.0MHz]
Signal to noise ratio :	Mono : More than 65dB
	Stereo : More than 64dB
	[at 98.0MHz]
Distortion :	Mono : Less than 1.3%
	Stereo : Less than 2.0%
	[at 98.0MHz]
Auto stop level :	25dB ± 10dB [at 98.0MHz]
Stereo separation :	More than 25dB [at 98.0MHz]
Intermediate frequency :	10.7MHz

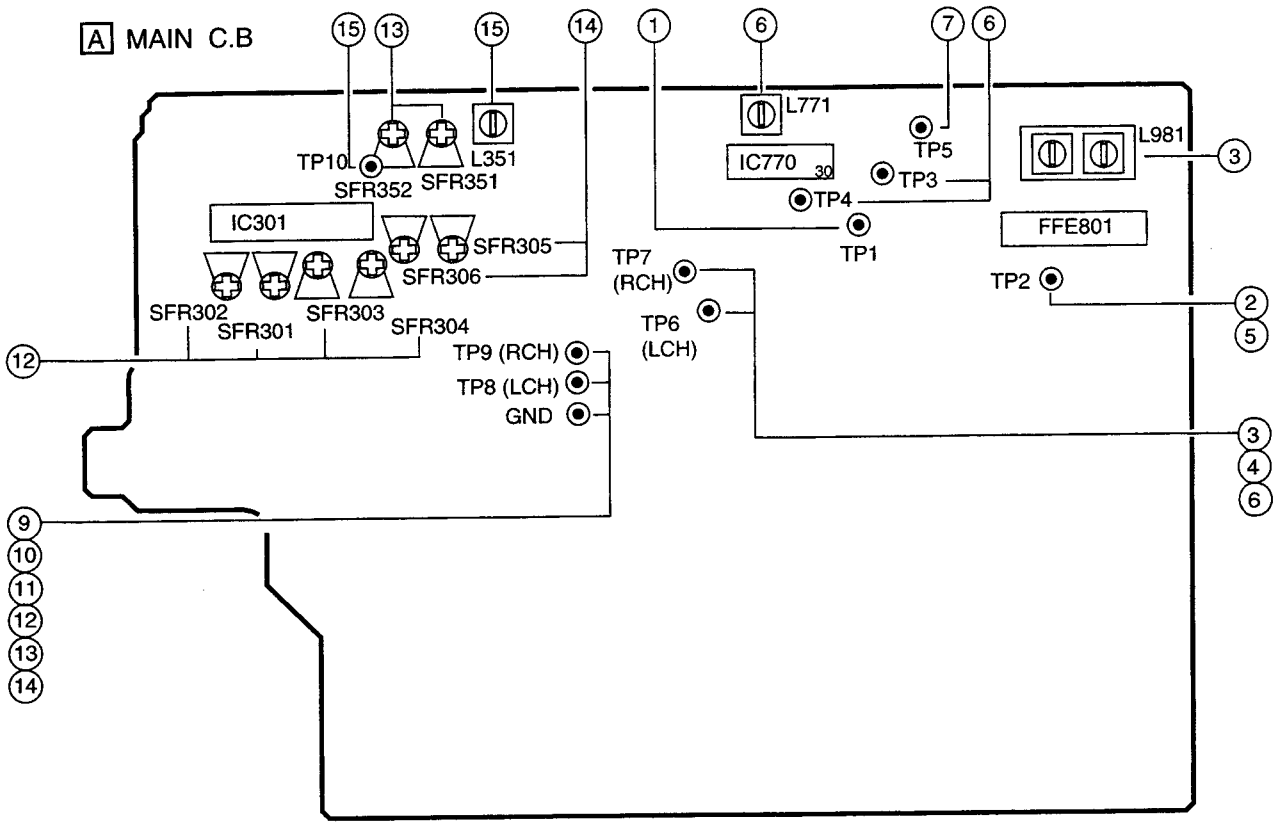
<AM(MW) SECTION>

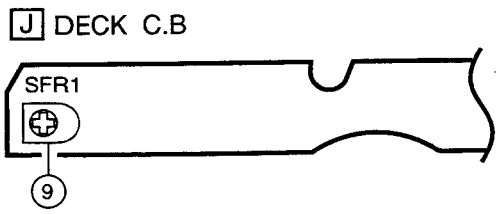
Sensitivity :	50 ~ 60dB
(S/N 20 dB)	[at 600kHz]
	48 ~ 58dB
	[at 1000kHz]
	48 ~ 58dB
	[at 1400kHz]
Signal to noise ratio :	More than 36dB
	[at 1000kHz]
Distortion :	Less than 1.5%
	[at 1000kHz]
Auto stop level :	50dB +10/-15dB
	[at 1000kHz]
Intermediate frequency :	450kHz

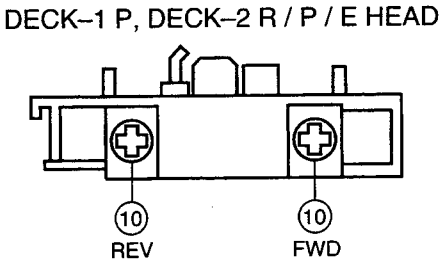
<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.15%
	(W.R.M.S)
Take-up torque :	30 ~ 55g-cm
	(FWD, REV)
F.F & REW torque :	75 ~ 180g-cm
Back tension :	2 ~ 7g-cm
	(FWD, REV)
PB output level :	300mV± 1.5dB
	(SP OUT 2V)
REC/PB output level :	180mV ± 1dB
	(SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0%
	(NORM, CrO_2)
Noise level (REC/PB) :	Less than 1.8mV
	(NORM, SP OUT 2V, DOLBY OFF)
	Less than 1.1mV
	(CrO_2, SP OUT 2V, DOLBY B,C ON)
Crosstalk :	More than 60dB
	(1kHz, 0VU)
Channel separation :	More than 30dB
	(1kHz, 0VU)
Erasing ratio :	More than 30dB
	(at 125Hz)
Test tape :	TTA-602 (NORMAL)
	TTA-615 (CrO_2)

ADJUSTMENT - 1 <TUNER / DECK>







< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP1 (CLK IC770 pin30)
   Method : Set to MW 1710kHz, and check that the test point is 2160kHz ± 45Hz.

2. MW VT Check
   Settings : • Test point : TP2 (VT)
   Method : Set to MW 1710kHz and check that the test point is less than 6.0V ± 1.0V.

3. MW Tracking Adjustment
   Settings : • Test point : TP6, TP7
   • Adjustment location : L981
   Method : Set to MW 1000kHz and adjust L981 so that the test point becomes maximum.

4. FM Tracking Check
   Settings : • Test point : TP6, TP7
   Method : Set to FM 98.0MHz, and check that the test point is 2 ± 6dB.

5. FM VT Check
   Settings : • Test point : TP2 (VT)
   Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 1.5V (87.5MHz) and less than 8.5V (108.0MHz).

6. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   : TP6, TP7 (Distortion)
   • Adjustment location : L771
   • Input level : 54dB
   Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V.
   Next, check that the distortion is less than 1.3%.

7. Auto Stop Level Check
   Settings : • Test point : TP5
   • Input level : 18dB
   Method : Set to FM 98.0MHz and check voltage low (about 0.1V). After that voltage high (about 7.0V) by 2dB down.

8. Auto Stop Level Check
   MW
   • Input level : Variable
   Method : Check auto stop at MW 1000kHz and the level is 50 +10/-15dB.

   FM
   • Input level : Variable
   Method : Check auto stop at FM 98.0MHz and the level is 25 dB ± 10 dB.

< DECK SECTION >

9. Tape Speed Adjustment
   Settings : • Test tape : TTA–100
   • Test point : TP8, TP9
   • Adjustment location : SFR1
   Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz.

8. Head Azimuth Adjustment
   Settings : • Test tape : TTA–300
   • Test point : TP8, TP9
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum.

11. PB Frequency Response Check (DECK 1, DECK 2)
   Settings : • Test tape : TTA–300
   • Test point : TP8, TP9
   Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is ±2dB.

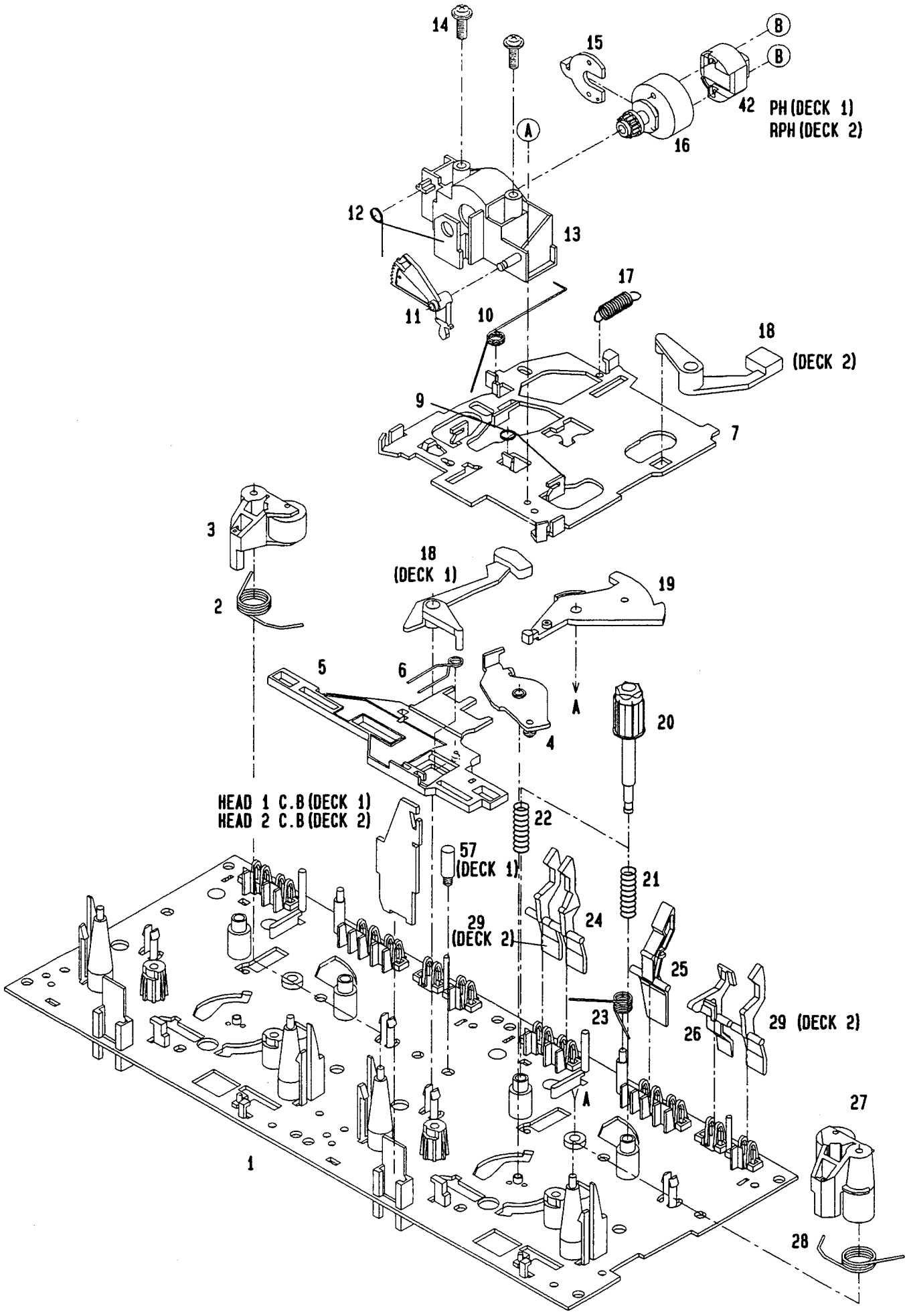
12. PB Sensitivity Adjustment (DECK 1, DECK 2)
   Settings : • Test tape : TTA–200
   • Test point : TP8, TP9
   • Adjustment location : SFR301 (DECK 1, Lch)
   SFR302 (DECK 1, Rch)
   SFR303 (DECK 2, Lch)
   SFR304 (DECK 2, Rch)
   Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes 245mV.

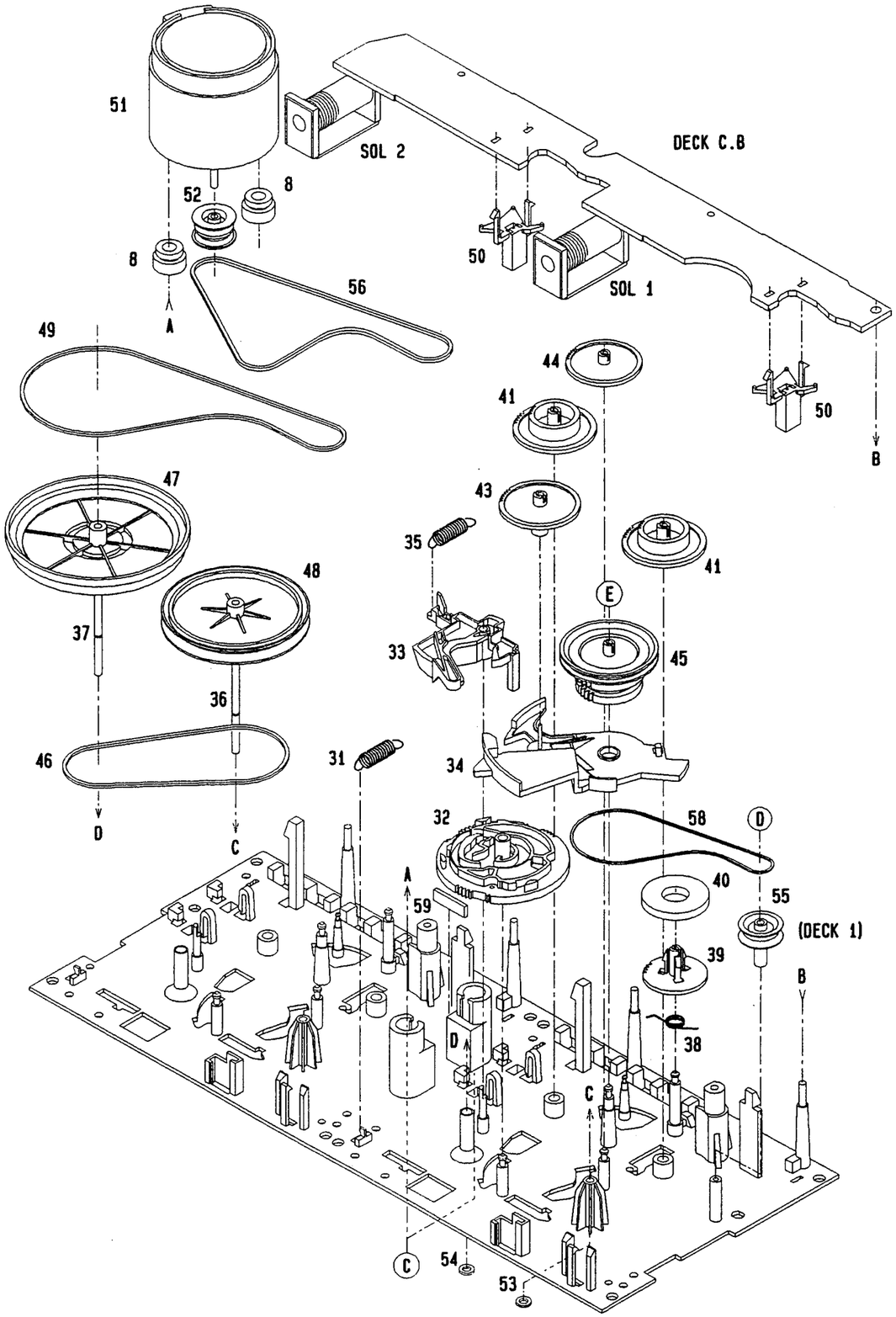
13. REC/PB Frequency Response Adjustment
   Settings : • Test tape : TTA–602
   • Test point : TP8, TP9
   • Input signal : 1kHz / 10kHz (LINE IN)
   • Adjustment location : SFR351 (Lch)
   SFR352 (Rch)
   Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 17mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

14. REC/PB Sensitivity Check
   Settings : • Test tape : TTA–602
   • Test point : TP8, TP9
   • Input signal : 1kHz (LINE IN)
   Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 17mV. Record and play back the 1kHz signals and check that the output is 17mV ± 0.5dB.

15. Bias OSC Frequency Adjustment
   Settings : • Test tape : TTA–615
   • Test point : TP10
   • Adjustment location : L351
   Method : Set to the REC mode. Adjust L351 so that the frequency at the test point is 85kHz ± 1kHz.

TAPE MECHANISM EXPLODED VIEW 1/1





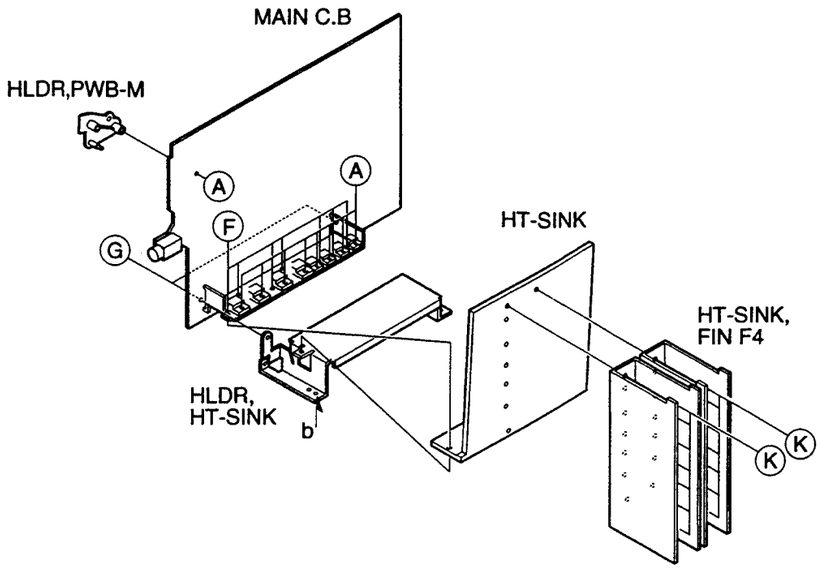
TAPE MECHANISM PARTS LIST 1 / 1

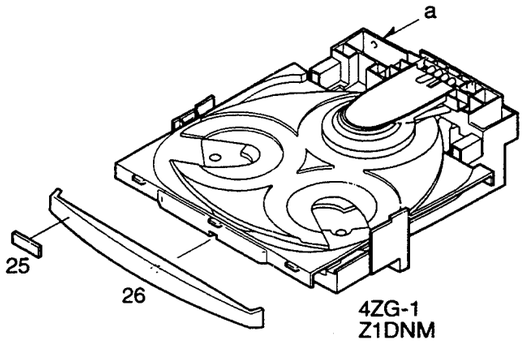
If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

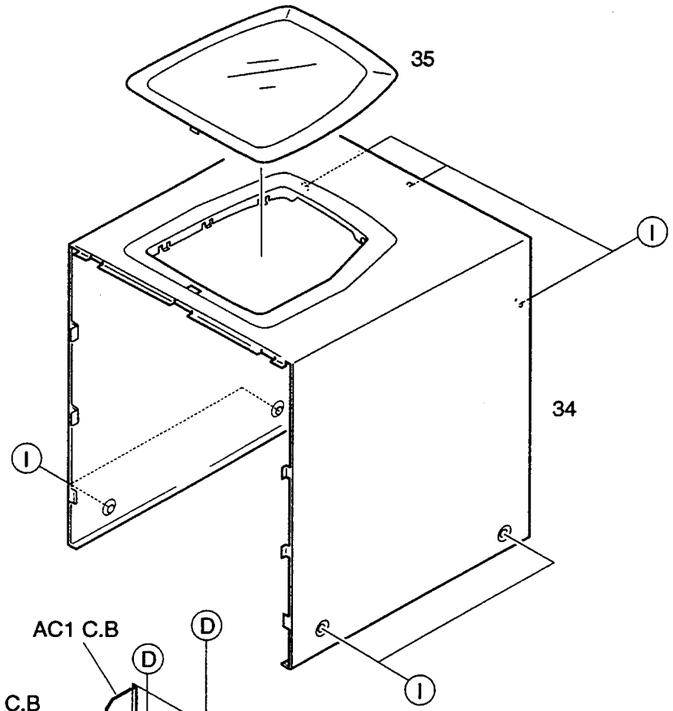
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2
2	82-ZM1-258-110		SPR-T,PINCH L
3	82-ZM1-341-110		LVR ASSY,PINCH L2
4	82-ZM1-333-010		PLATE,LINK 2
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-81K		CHAS,HEAD
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM1-219-119		SPR-T,LINK
11	82-ZM1-210-119		GEAR,H T
12	82-ZM1-213-019		SPR-T,HEAD
13	82-ZM1-207-619		GUIDE,TAPE
14	86-ZM4-206-010		S-SCREW,AZIMUTH
15	82-ZM1-314-119		PLATE,HEAD
16	82-ZM1-208-119		HLDR,HEAD
17	82-ZM1-218-019		SPR-E,HB
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)
19	82-ZM1-222-21K		LVR,PLAY
20	82-ZM1-217-319		REEL TABLE
21	82-ZM1-244-510		SPR-C,BT
22	82-ZM1-285-310		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM1-241-319		LVR,MC
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-344-110		LVR ASSY,PINCH R2
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
31	82-ZM1-255-319		SPR-E,LVR DIR
32	82-ZM3-305-01K		GEAR,CAM M2
33	82-ZM1-227-21K		LVR,TRIG
34	82-ZM3-306-11K		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TRIG

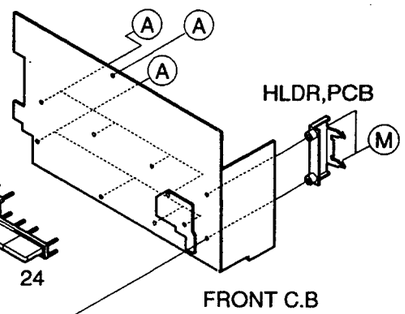
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
36	82-ZM1-236-019		CAPSTAN N 2-41.5
37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM3-616-019		RING MAGNET 4
41	82-ZM1-216-31K		GEAR,REEL
42	87-A90-319-010		HEAD,PH HADKH2 FPC
42	87-A90-320-010		HEAD,RPH HADKH5 FPC
43	82-ZM1-225-21K		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
49	82-ZM3-329-210		BELT,SBU R2
50	82-ZM1-245-210		HLDR,IC
51	87-045-347-019		MOT,SHU2L 70(M1)
52	82-ZM3-221-010		PULLEY,MOT 2M
53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
56	82-ZM3-337-010		BELT,SBU MOT 2
57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
58	86-ZM1-206-010		BELT,MAIN L
59	82-ZM3-340-010		SH,BELT D2
A	85-ZM3-202-010		S-SCREW,TG
B	80-ZM6-207-019		V+1.6-7
C	82-ZM3-318-019		S-SCRW MOTOR M2
D	87-B10-043-010		W-P,0.99-4-0.25 SLT
E	82-ZM3-334-010		PW,2.16-6-0.4

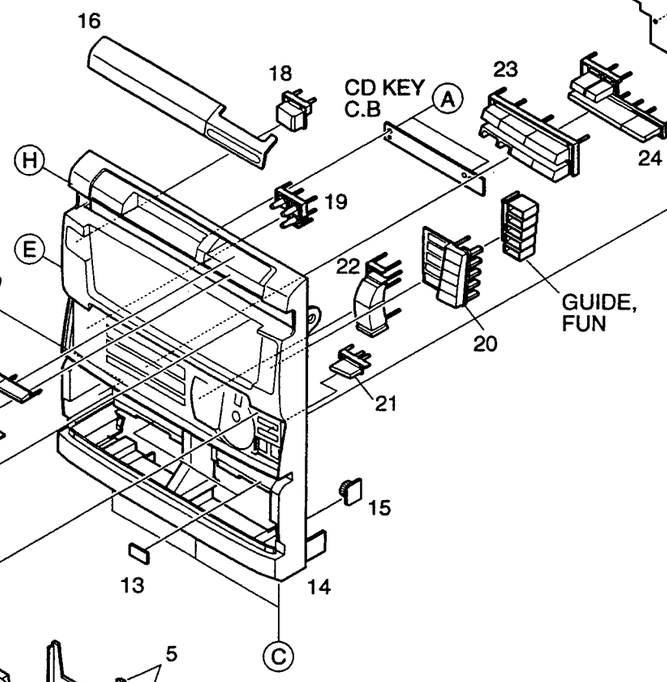
MECHANICAL EXPLODED VIEW 1/1

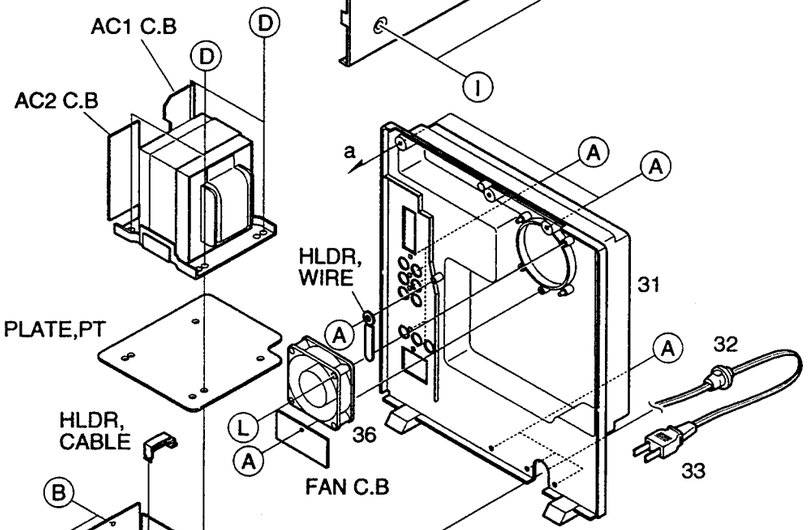


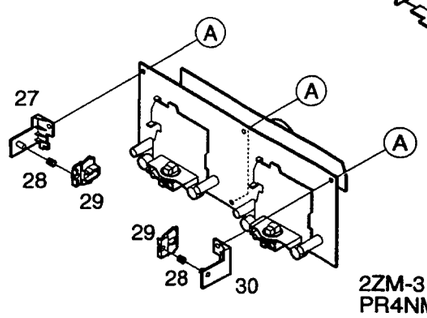


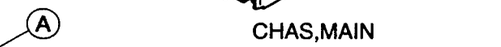










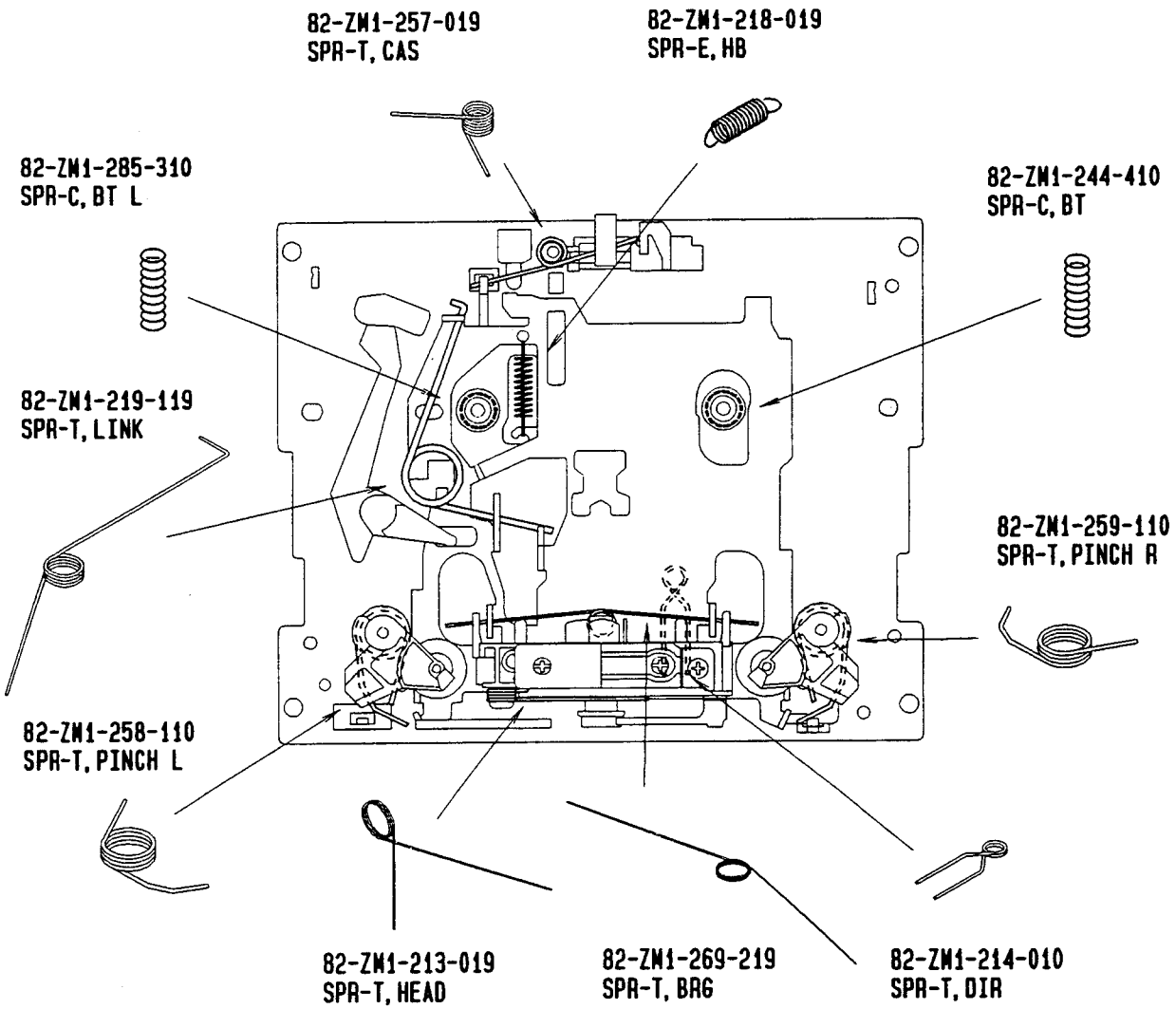


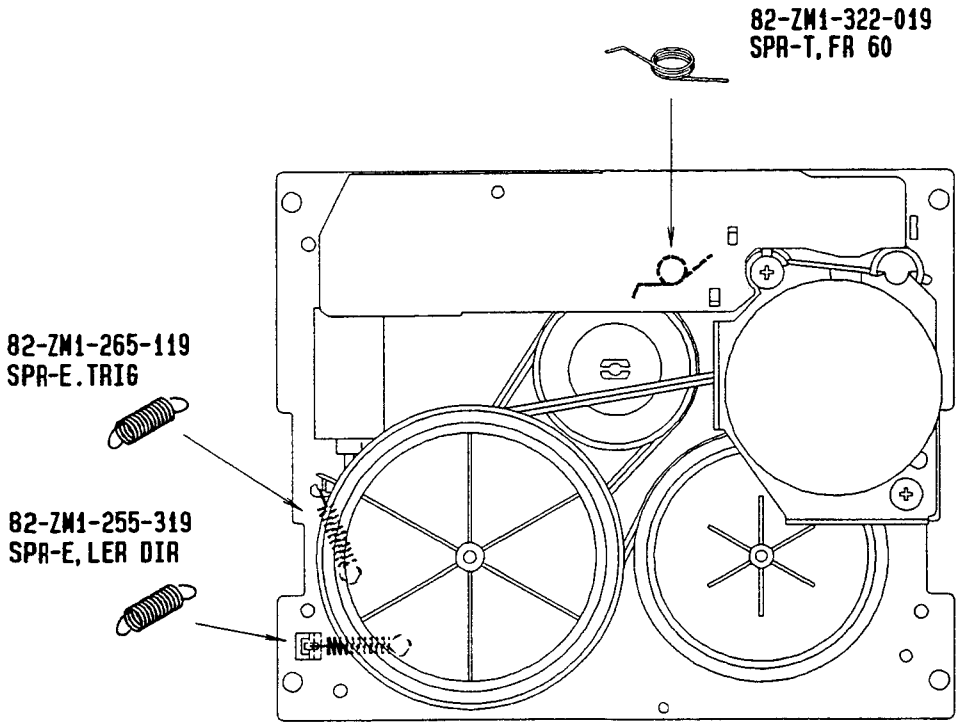
MECHANICAL PARTS LIST 1 / 1

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NF5-010-010		WINDOW,CASS 1
2	87-NF5-011-010		WINDOW,CASS 2
3	82-NF5-219-010		SPR-T,EJECT 2(SIN)
4	87-NF5-004-010		BOX,CASS 2H
5	86-NF6-061-010		REFLECTOR,CASS
6	87-NF5-003-010		BOX,CASS 1H
7	82-NF5-218-010		SPR-T,EJECT 1(SIN)
8	87-NF5-023-010		KNOB,RTRY VOL
9	87-NF5-007-010		RING,VOL
10	87-NF5-002-010		PANEL,FR H
11	87-NF5-009-010		WINDOW,DISP H
12	87-NF5-016-010		KEY,DISC
13	81-532-080-010		LBL,CASS-COMPT
14	87-NF5-001-010		CABI,FR H<70LH>
14	87-NF5-042-010		CABI,FR H S74<74LH>
14	87-NF5-050-010		CABI,FR U A71<71U>
15	87-063-165-010		OIL-DMPR,150
16	87-NF5-008-010		WINDOW,CD
17	87-NF5-015-010		KEY,OPEN
18	87-NF5-017-010		KEY,POWER
19	87-NF5-019-010		KEY,DEMO
20	87-NF5-018-010		KEY,FUN
21	87-NF5-020-010		KEY,VF
22	87-NF5-022-010		KEY,GEQ
23	87-NF5-024-010		KEY,ASSY OPE
24	87-NF5-021-010		KEY,EDIT
25	82-NE6-067-010		BADGE,AIWA 30N
26	87-NF5-005-010		PANEL,TRAY H
27	87-NF4-216-010		HLDR,LOCK 1
28	82-NF5-228-010		SPR-C,LOCK
29	82-NF5-229-010		PLATE,LOCK
30	87-NF4-217-010		HLDR,LOCK 2
31	87-NF5-035-010		CABI,REAR LHSTNM<74LH,70LH>
31	87-NF5-040-010		CABI,REAR USTNM A71<71U>
32	87-085-185-010		BUSHING,AC CORD(E) CM-22B<74LH,70LH>
32	87-085-189-010		BUSHING,AC CORD(U) CM-22C<71U>
⚠ 33	87-050-079-010		AC CORD ASSY,E BLK<74LH,70LH>
⚠ 33	87-050-053-010		AC CORD ASSY,U-2<71U>
34	86-NFT-005-110		CABI,STEEL TS
35	86-NF6-007-010		WINDOW,TOP
36	87-A90-463-010		FAN,2408NL<74LH,70LH>
A	87-067-703-010		BVT2+3-10 W/O SLOT
B	87-591-094-410		QIT+3-6
C	87-067-688-010		BVTT+3-6
D	87-067-975-010		S-SCREW,IT+4-8 SWCH12A
E	87-721-096-410		QT2+3-10 W/O SLOT
F	87-067-758-010		BVT2+3-12 W/O SLOT
G	87-067-633-010		BVT2+3-8 W/O SLOT W/ CONVEX
H	87-721-097-410		QT2+3-12 W/O SLOT
I	87-067-641-010		UTT2+3-8 W/O SLOT BLK
J	87-067-584-010		BVT2+3-6 W/O SLOT
K	87-067-690-010		BVIT3B+3-12 BLK
L	87-571-104-410		VIT+3-30<74LH,70LH>
M	87-067-581-010		BVT2+3-15 W/O SLOT

SPRING APPLICATION POSITION





ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NF5-902-010		IB,LH(ESP)M<74LH,70LH>
1	87-NF5-911-010		IB,U(ESF)M-71<71U>
2	87-NB7-651-010		RC UNIT,RC-7AS08
3	87-A90-064-010		FEEDER-ANT,FM (SHS)
⚠ 4	87-A90-312-010		PLUG,CONVERSION WTN-1157R1<74LH,70LH>
5	87-006-225-010		ANT,LOOP ANT NC2

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G— —	
G— —	
G— —	

アイワ株式会社
AIWA CO.,LTD.

9301978, 750038
Tokyo Japan

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Printed in Singapore

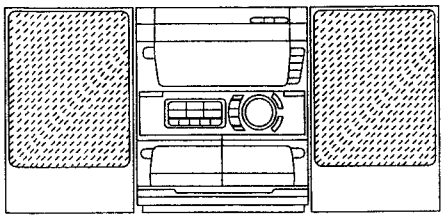
aiwa

AIWA-02399

aiwa SERVICE

NSX-A72
NSX-A74

SERVICE MANUAL



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM
- BASIC CD MECHANISM : 4ZG–1 Z1DNM
- TYPE : U

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-A72	CX-NA71 (TYPE : U)	SX–ANA72	RC - 7AS08
NSX-A74		SX–NA74 SX-R240	

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1. S/M Code No. 09-974-187-50T.
- This Service Manual contains information about the difference between NSX-A72 (U), NSX-A74 (U) and NSX-A71 (U). If requiring the other information, see Service Manual of NSX-A71 (U). S/M Code No. 09-973-182-5FP. 2998

2399

S/M Code No. 09–976–207–0FP

SPECIFICATIONS

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<MW Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 uV/m
Antenna	Loop antenna

<Amplifier section>

Power output	Rated 100 W + 100 W (50Hz - 20kHz, T.H.D. less than1%, 6 ohms)
Total harmonic distortion	0.05% (90 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 210 mV(adjustable) MD : 210mV (adjustable) MIC 1,MIC 2: 1.4mV (10 kohms)
Outputs	LINE OUT: 200mV SUPER WOOFER: 2.4 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CRo_2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz –15000 Hz
Singnal-to noise ratio	60 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Deck 1 : playback head x 1 Deck 2 : Recording/Playback/ erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX–ANA72 (For NSX-A72)>

Cabinet type	4 way, bass reflex with surround speaker (magnetic shielded type)
Speakers	Woofer : 160 mm ($6^3/_8$ in.) cone type Tweeter : 50 mm (2 in.) cone type Super tweeter: 20 mm ($^{13}/_{16}$ in.) ceramic type Cardioid speaker : 80 mm ($3^1/_4$ in.) cone type Surround speaker : 80 mm ($3^1/_4$ in.)
Impedance	Front speaker : 6 ohms Surround speaker : 16 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	250 x 310 x 280mm ($9^7/_8$ x $12^1/_4$ x $11^1/_8$ in.)
Weight	4.5 kg (9 lbs 15 oz.)

<Speaker system SX–NA74 (For NSX-A74)>

Cabinet type	3 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 160 mm ($6^3/_8$ in.) cone type Tweeter : 80 mm ($3^1/_4$ in.) cone type Super tweeter : 20 mm ($^{13}/_{16}$ in.) ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	243 x 304 x 255 mm ($9^5/_8$ x 12 x $10^1/_8$ in.)
Weight	3.8 kg (8 lbs 6 oz.)

<General>

Power requirements	120 VAC, 60 Hz
Power consumption	115 W
Dimensions of main unit (W x H x D)	260 x 309 x 362.5 mm ($10^1/_4$ x $12^1/_4$ x $14^3/_8$ in.)
Weight of main unit	8.5 kg (18 lbs 12 oz.)

- Design and specifications are subject to change without notice.

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
  "DOLBY" and the double-D symbol ⊡⊡ are trademarks of Dolby Laboratories Licensing Corporation.

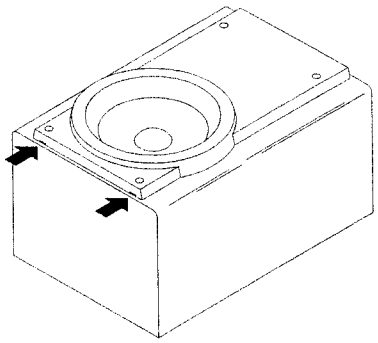
- The word "BBE"and the "BBE symbol" are trademarks of BBE Sound, Inc.
  Under license from BBE Sound,Inc.

SPEAKER DISASSEMBLY INSTRUCTIONS

Type.1

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットのビスを取り、スピーカーユニットを外してください。

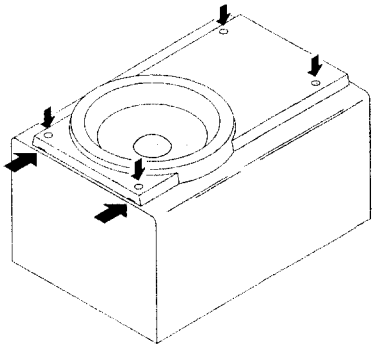
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



Type.2

グリルフレームを外し、4個のゴムキャプをマイナスドライバーで端の方から持ち上げて外すと中にビスが有りますので、ビスを取り外します。矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットのビスを取り、スピーカーユニットを外してください。

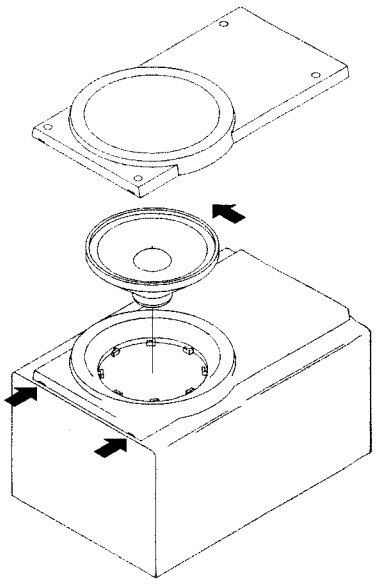
Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



Type.3

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットの凹にマイナスドライバーを差し込んで、反時計方向に回転させスピーカーユニットを外してください。スピーカーユニット交換後は時計方向にクリック音がするまで、回転させて取り付けます。

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows arround speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



SX-ANA72 (YU)
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NS5-001-010		PANEL,FR R
2	87-NS5-002-010		PANEL,FR L
3	87-NS5-010-010		PROTECTOR,R
4	87-NS5-011-010		PROTECTOR,L
5	87-NS5-012-010		PROTECTOR,TOP
6	87-NS5-025-010		GRILLE,FRAME ASSY R
7	87-NS5-026-010		GRILLE,FRAME ASSY L
8	87-NS4-611-019		SPKR,CORD
9	85-NS6-611-019		SPKR,CORD Y/B
10	87-NS5-602-019		SPKR,W 160
11	87-NS5-604-019		SPKR,MID
12	87-NS5-605-019		SPKR,T 50

SX-NA74 (YU)
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-NSE-001-010		PANEL,FR R
2	87-NSE-002-010		PANEL,FR L
3	87-NSF-003-010		PANEL,DUCT R
4	87-NSF-004-010		PANEL,DUCT L
5	87-NSE-012-010		GRILLE,FRAME ASSY R
6	87-NSE-014-010		GRILLE,FRAME ASSY L
7	87-NSF-602-019		SPKR,W 160
8	87-NSE-604-019		SPKR,T 80
9	87-NSF-610-019		SPKR,CORD

SX-R240 (YB,YJB,YUB,YUST,YJST,YST,YUAST)
SPEAKER PARTS LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NSV-001-010		PANEL,FR<YB,YJB,YUB>
1	86-NSX-009-010		PANEL FR ST<YUST,YJST,YST,YUAST>
2	85-NSX-005-010		GRILLE,FRAME ASSY<EXCEPT YUAST>
2	85-NSX-015-010		GRILLE,FRAME ASSY B<YUAST>
3	85-NSL-601-010		SPEAKER
4	81-VSA-010-010		SPEAKER CORD

サービス技術ニュース	
番号	連絡内容
G— —	
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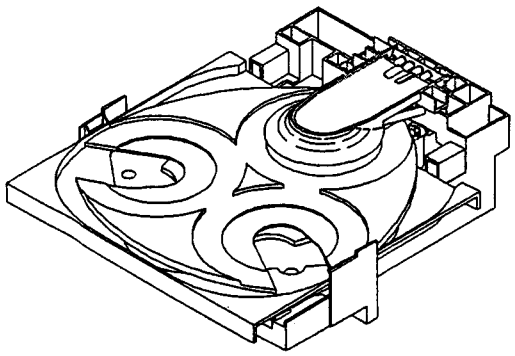
V18295

4ZG-1Z



CD MECHANISM

SERVICE MANUAL

• BASIC CD MECHANISM: KSM-2 131 BAM / 3ZG-2C7N

•TYPE: English.Japanese

BASIC NAME	DERIVATION NAME							
4ZG-1Z	1D	2D	1MD	–		–	–	–

S/M Code No. 09-973-187-50T (Service Manual)
S/M Code No. 09-984-270-60T (Correction)

安全に修理(補修)をするために

修理の前に「安全に修理(補修)をするために」をよくお読みの上、正しく修理を行ってください。このサービスマニュアルでは、お客様が製品を安全に正しくお使いいただき、お客様や他の人々への危害や財産への損害を未然に防止するために、修理する場合必ず下記の項目をお守りください。

⚠警告

警告に示された次の内容を必ずお守りください。

☞もし守られないと、火災や感電、けがなどの重度の損害を負う原因となります。

1.⚠安全規格部品注意文
・製品の安全性を維持する為の重要部品で、安全上特別な規格で作られています。
このマークの部品を交換する時は必ず指定の部品を使用してください。

2.指定部品を使用すること。
セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。従って交換部品は、使用されていたものと同じ特性の部品を使用すること。特に回路図、部品表に⚠印で指定されている安全上重要な部品は必ず指定のものをご使用ください。

3.電源コードを含むＡＣ1次側のリード線の被覆を傷つけたり、溶かしたりしないこと。

4.感電に注意すること。
内部には高電圧の部分がありますので通電時の取り扱いに際しては注意してください。

5.次の各項目は修理前と必ず同じであること。
1）ワイヤーの半田付け状態（特にＡＣ1次側の空間距離）
2）ワイヤーの引き回しおよび束線状態等
3）ワイヤーの種類
4）各種絶縁物の取付状態

7.部品の取り付けや配線の引き回しはもとどおりにすること。
安全上、チューブやテープなどの絶縁材料を使用したり、プリント基板から浮かしてとりつけた部品があります。また、内部配線は引き回しやクランパーによって発熱部品や高圧部品に接近しないよう配慮されていますので、これらは必ずもとどおりにすること。

⚠注意

この表示を無視して、誤った取り扱いをすると、人が傷害を負ったり物的損害が発生する可能性があります。

1.注意事項を守ること。
サービスの時特に注意を要する箇所につきましては、キャビネット、シャーシ、部品などにラベルや捺印で注意事項を表示しています。これらの注意書きおよび取扱説明書等の注意事項を必ず守ること。

2.スペック銘板・注意ラベル・ヒューズラベル等の表示文字を汚して読みにくくならないこと。

3.基板パターンの裏付け部品の修理等を行う場合、パターンや部品にボンドを塗布してプリント基板にしっかり固定すること。

4.サービス後は安全点検すること。
サービスのために取り外したネジ、部品、配線がもとどおりになっているか、サービスした個所の周辺を劣化させてしまったところがないかなどを点検すること。（ワイヤーの半田付け、引き回し、束線、種類、空間距離）

5.修理（補修）時に、レーザー出力部に接近しないでください。やむなく接近する場合は、目を閉じてください。レーザービームに接近することが必要になった場合、光学ピックアップブロックの対物レンズの表面から30cm以上離れていることを確認してください。

ギヤ、メインカムの位相の合わせ方

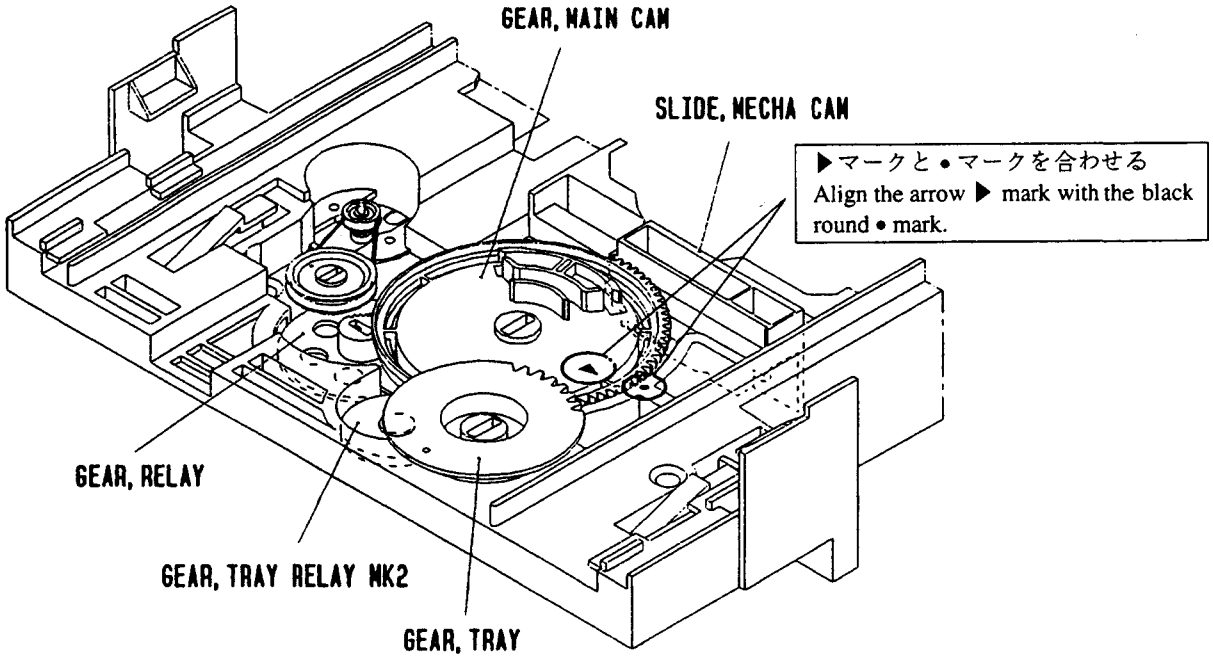
1) CHAS, MECHのツメを下側に押し、TRAYを外す。
2) 下図の様にGEAR, MAIN CAMの矢印とCHAS, MECHAの点印を合わせる。
3) SLIDE, MECH CAMが右側の位置にある事を確認し、TRAYをゆっくり挿し込んで下さい。

注意: GEAR, MAIN CAMの位相がズレている場合、チャッキング及びトレーが誤動作を起こします。

How to Adjust the Rotating Phase of the Gear, Main Cam

1) Push down the hooking catch of the CHAS. MECH, and remove the TRAY.
2) Align the arrow mark of the Gear, Main Cam with the black round mark of the CHAS, MECHA as shown below.
3) Confirm that the Slide, Mech Cam is located in the right position, then insert the TRAY gently.

Caution: If the rotating phase of the Gear, Main Cam is incorrectly adjusted, the chucking operation and tray movement will have malfunction.

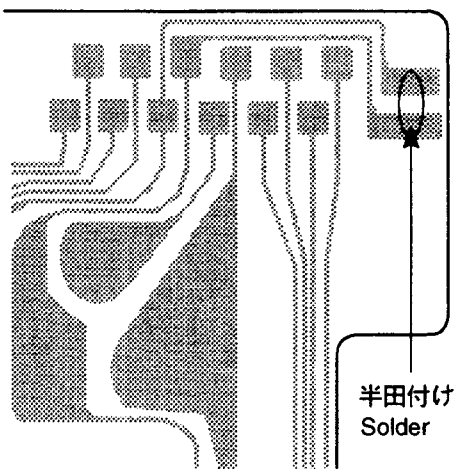


光学ブロック (KSS-213B) 交換時の注意

光学系ブロック内のレーザーダイオードは、衣服や人体に帯電した静電荷等で電位差を生じることにより、静電破壊することがあります。人体アース、作業台のアースをとり、衣服が触れぬよう注意して下さい。

1) コネクターを接続後、右図に示すハンダ付けを取り除いて下さい。

PICK-UP Assy P.C.B



Precaution to replace Optical block (KSS-213B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

ELECTRICAL MAIN PARTS LIST

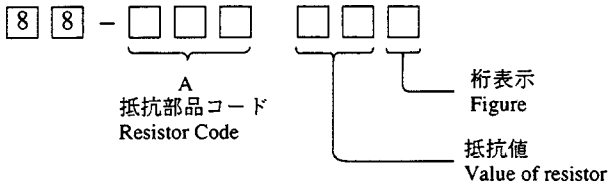
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC			
	87-A20-446-010	1E	C-IC,LA9241ML
	87-A20-459-010	2A	C-IC,LC78622ED
	87-A20-445-010	1F	IC,BA5936
TRANSISTOR			
	87-A30-066-080	0E	TR,2SA1175FE
	87-A30-076-080	0E	C-TR,2SC3052F
	87-A30-047-080	0E	TR,CSD655E
	87-026-609-080	0E	TR,KTA1266GR
	87-A30-073-080	0E	C-TR,RT1N 141C
	87-A30-039-040	0E	C-TR,2SD1383K<1MD>
DIODE			
	87-002-564-080	0E	DIODE,1SS133-RA
3CD C.B			
	84-ZG1-244-210	1A	CABI,OPTICAL
C11	87-012-393-080	0E	C-CAP,S 0.22-16 K W5R CM/CB
C12	87-012-157-080	0E	C-CAP,S 330P-50 J CH GRM
C13	87-016-369-080	0E	C-CAP,S 0.033-25 K B
C14	87-A10-201-080	0E	C-CAP,S 0.33-16 K B
C15	87-010-590-080	0E	C-CAP,S 0.015-16 K R
C16	87-016-369-080	0E	C-CAP,S 0.033-25 K B
C17	87-010-181-080	0E	C-CAP,S 1800P-50 K B
C18	87-016-369-080	0E	C-CAP,S 0.033-25 K B
C19	87-010-198-080	0E	C-CAP,S 0.022-25 K B
C20	87-010-178-080	0E	C-CAP,S 1000P-50 K B
C21	87-012-393-080	0E	C-CAP,S 0.22-16 K W5R CM/CB
C22	87-016-083-080	0E	C-CAP,S 0.15-16 K R
C23	87-010-197-080	0E	C-CAP,S 0.01-25 K B
C24	87-010-186-080	0E	C-CAP,S 4700P-50 K B
C25	87-010-400-040	0E	CAP,E 0.47-50 SME
C26	87-010-322-080	0E	C-CAP,S 100P-50 J CH
C27	87-010-382-040	0E	CAP,E 22-25 SME
C28	87-010-403-040	0E	CAP,E 3.3-50 SME
C29	87-010-184-080	0E	C-CAP,S 3300P-50 K B
C30	87-010-146-080	0E	C-CAP,S 2P-50 C CH GRM
C31	87-010-186-080	0E	C-CAP,S 4700P-50 K B
C32	87-010-152-080	0E	C-CAP,S 8P
C33	87-016-081-080	0E	C-CAP,S 0.1-16 K R
C35	87-010-196-080	0E	C-CAP,S 0.1-25 Z F C2012
C37	87-010-405-080	0E	CAP,E 10-50 M SME
C38	87-010-263-080	0E	CAP,E 100-10 SME
C39	87-016-369-080	0E	C-CAP,S 0.033-25 K B
C40	87-010-401-080	0E	CAP,E 1-50 M SME
C41	87-A10-201-080	0E	C-CAP,S 0.33-16 K B
C42	87-010-263-080	0E	CAP,E 100-10 SME
C43	87-010-197-080	0E	C-CAP,S 0.01-25 K B
C44	87-010-263-080	0E	CAP,E 100-10 SME
C46	87-010-196-080	0E	C-CAP,S 0.1-25 Z F C2012
C47	87-010-260-080	0E	CAP,E 47-25 SME
C48	87-010-196-080	0E	C-CAP,S 0.1-25 Z F C2012
C49	87-010-404-080	0E	CAP,E 4.7-50 M SME
C50	87-010-197-080	0E	C-CAP,S 0.01-25 K B
C51	87-010-263-040	0E	CAP,E 100-10 M SME
C101	87-016-081-080	0E	C-CAP,S 0.1-16 K R
C102	87-016-081-080	0E	C-CAP,S 0.1-16 K R
C103	87-010-321-080	0E	C-CAP,S 82P-50 J CH
C104	87-012-154-080	0E	C-CAP,S 150P-50 J CH GRM
C105	87-010-196-080	0E	C-CAP,S 0.1-25 Z F C2012
C109	87-010-197-080	0E	C-CAP,S 0.01-25 K B
C111	87-010-312-080	0E	C-CAP,S 15P
C112	87-010-154-080	0E	C-CAP,S 10P-50 D CH
C113	87-010-322-080	0E	C-CAP,S 100P-50 J CH
C115	87-010-404-080	0E	CAP,E 4.7-50 M SME
C116	87-010-196-080	0E	C-CAP,S 0.1-25 Z F C2012
C117	87-010-263-040	0E	CAP,E 100-10 M SME
C118	87-010-178-080	0E	C-CAP,S 1000P-50 K B
C119	87-010-154-080	0E	C-CAP,S 10P-50 D CH
C121	87-010-405-080	0E	CAP,E 10-50 M SME
C122	87-010-405-080	0E	CAP,E 10-50 M SME
C123	87-012-157-080	0E	C-CAP,S 330P-50 J CH GRM
C124	87-012-157-080	0E	C-CAP,S 330P-50 J CH GRM
C131	87-010-382-080	0E	CAP,E 22-25 M SME
C191	87-010-263-040	0E	CAP,E 100-10 M SME
C301	87-010-196-080	0E	C-CAP,S 0.1-25 Z F C2012
C302	87-010-382-080	0E	CAP,E 22-25 M SME
C501	87-010-381-080	0E	CAP,E 330-16 SME
C502	87-010-197-080	0E	C-CAP,S 0.01-25 K B
C504	87-010-196-080	0E	C-CAP,S 0.1-25 Z F C2012
C505	87-010-196-080	0E	C-CAP,S 0.1-25 Z F C2012
C506	87-010-196-080	0E	C-CAP,S 0.1-25 Z F C2012
C507	87-010-196-080	0E	C-CAP,S 0.1-25 Z F C2012
C509	87-010-196-080	0E	C-CAP,S 0.1-25 Z F C2012
C510	87-010-196-080	0E	C-CAP,S 0.1-25 Z F C2012
C603	87-010-196-080	0E	C-CAP,S 0.1-25 Z F C2012
C610	87-010-405-080	0E	CAP,E 10-50 M SME
C611	87-010-405-080	0E	CAP,E 10-50 M SME
C701	87-010-405-080	0E	CAP,E 10-50 M SME
C705	87-010-197-080	0E	C-CAP,S 0.01-25 K B
C706	87-010-196-080	0E	C-CAP,S 0.1-25 Z F C2012
C711	87-010-322-080	0E	C-CAP,S 100P-50 J CH
C712	87-010-322-080	0E	C-CAP,S 100P-50 J CH
C713	87-010-322-080	0E	C-CAP,S 100P-50 J CH
C721	87-010-322-080	0E	C-CAP,S 100P-50 J CH
C901	87-010-260-080	0E	CAP,E 47-25 SME
C902	87-010-196-080	0E	C-CAP,S 0.1-25 Z F C2012
CON3	84-ZG1-648-010	1A	CONN ASSY,6P<1MD,1D>
FC1	85-NFT-611-110	1A	FF-CABLE 16P-1.0
FC4	84-ZG1-614-210	1A	F-CABLE,5P 1.25 210MM
FC5	84-ZG1-630-010	0E	CABLE FFC 6P-1.25<2D>
L11	87-005-602-080	0E	COIL,10UH J LAV35
L101	87-005-614-080	0E	COIL,100UH
L102	87-005-602-080	0E	COIL,10UH J LAV35
LED901	87-A40-123-010	0E	LED,SLZ-8128A-01-B
M601	87-045-305-010	1D	MOT,RF-500TB
SW701	87-036-109-010	0E	SW,MICRO SPPB61
SW702	87-036-109-010	0E	SW,MICRO SPPB61
X101	87-A70-046-010	--	VIB,XTAL 16.934MHZ
LED C.B			
LED701	87-A40-316-080	0E	LED,SLR-56PCT31 GRN
LED702	87-A40-268-080	0E	LED,SLH-56DCT31 ORN
LED703	87-A40-268-080	0E	LED,SLH-56DCT31 ORN
LED704	87-A40-316-080	0E	LED,SLR-56PCT31 GRN
T-T C.B			
C401	87-018-214-080	0E	CAP,TC U 0.1-50 Z F SA
M401	87-045-364-010	1D	MOT,BCH3B
PS401	87-026-573-010	1B	SNSR,PHOTO GP1S53
MOTOR C.B<1MD,1D>			
M2	9X-262-513-210	2M	SLED MOTOR ASSY<1MD,1D>
PIN3	91-564-722-110	1C	CONNECTOR 6P<1MD,1D>
SW1	91-572-085-110	1B	LEAF SW<1MD,1D>

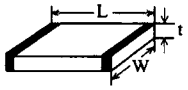
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
DRIVE C.B<2D>			
M1	87-045-358-010	1F	MOT,RF-310TA 43<2D>
M2	87-045-356-010	1F	MOT,RF-310TA 30<2D>
SW1	87-A90-042-010	0E	SW,LEAF MSW-17310MVPO<2D>

○ チップ抵抗部品コード／CHIP RESISTOR PART CODE

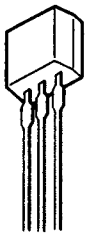
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

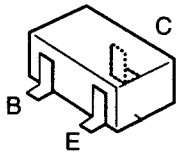
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code: A
1／16W	1608	±5%	CJ		1.6	0.8	0.45	108
1／10W	2125	±5%	CJ		2	1.25	0.45	118
1／8W	3216	±5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

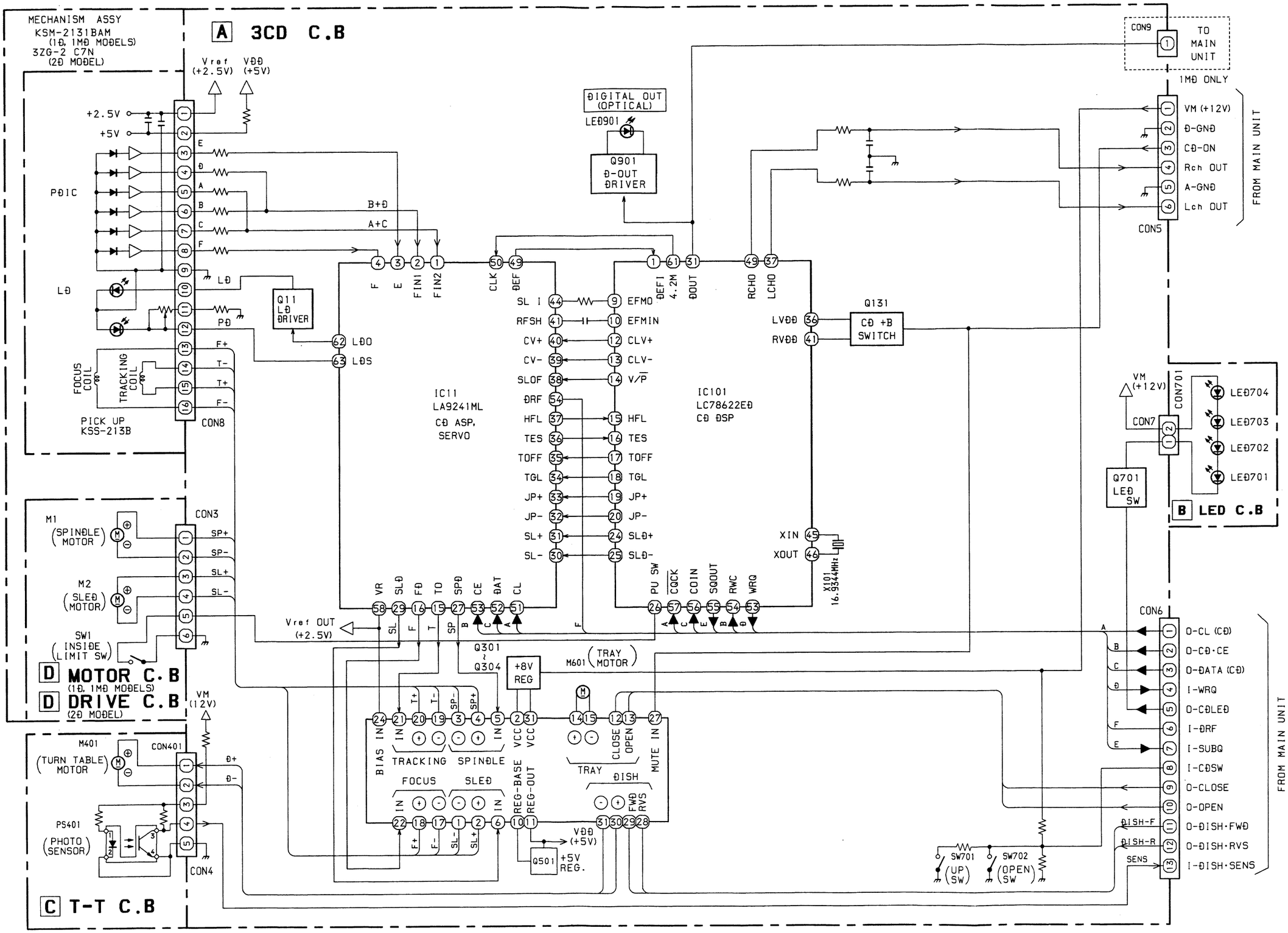


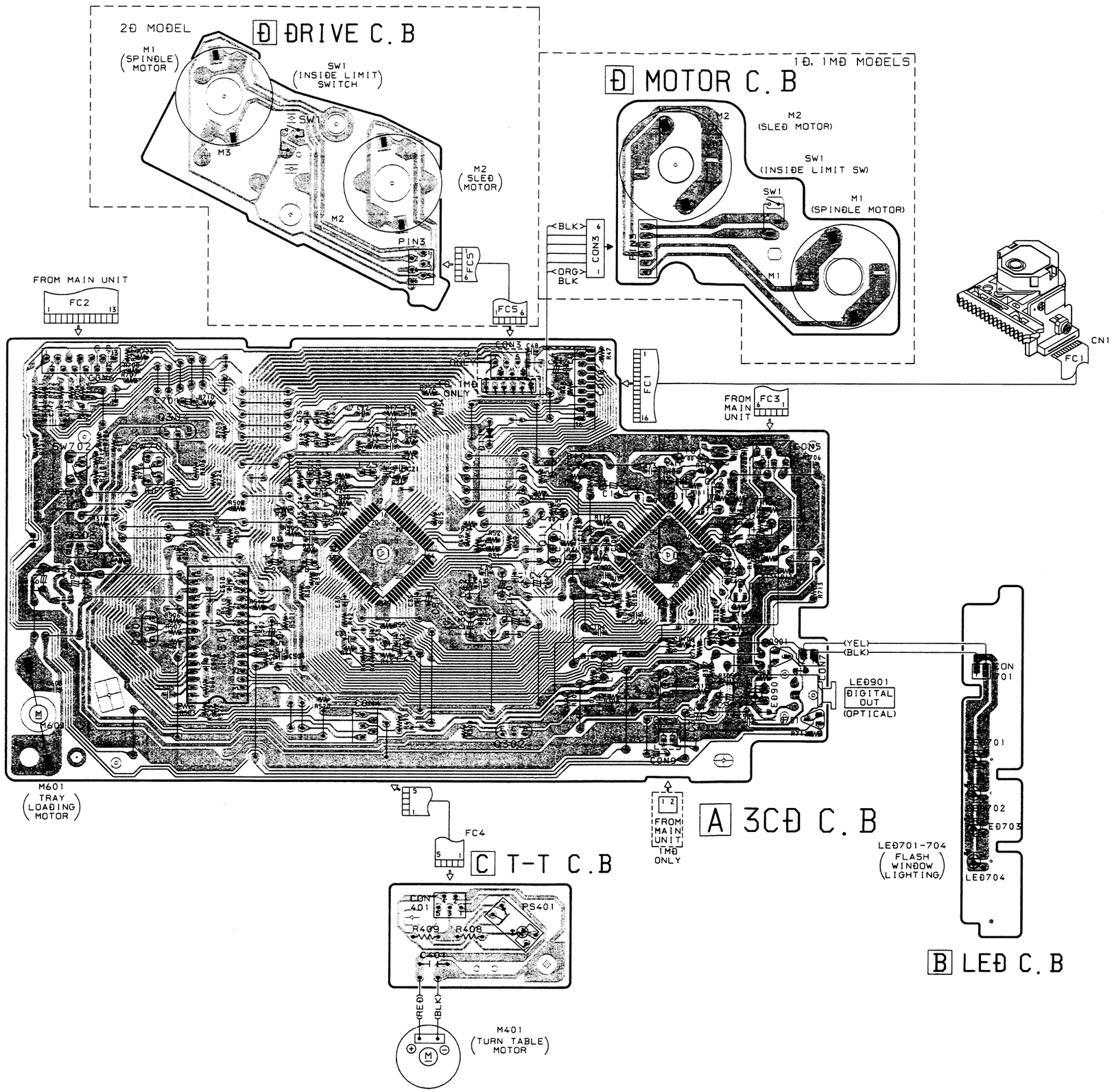
2SA1175

CSD655
KTA1266

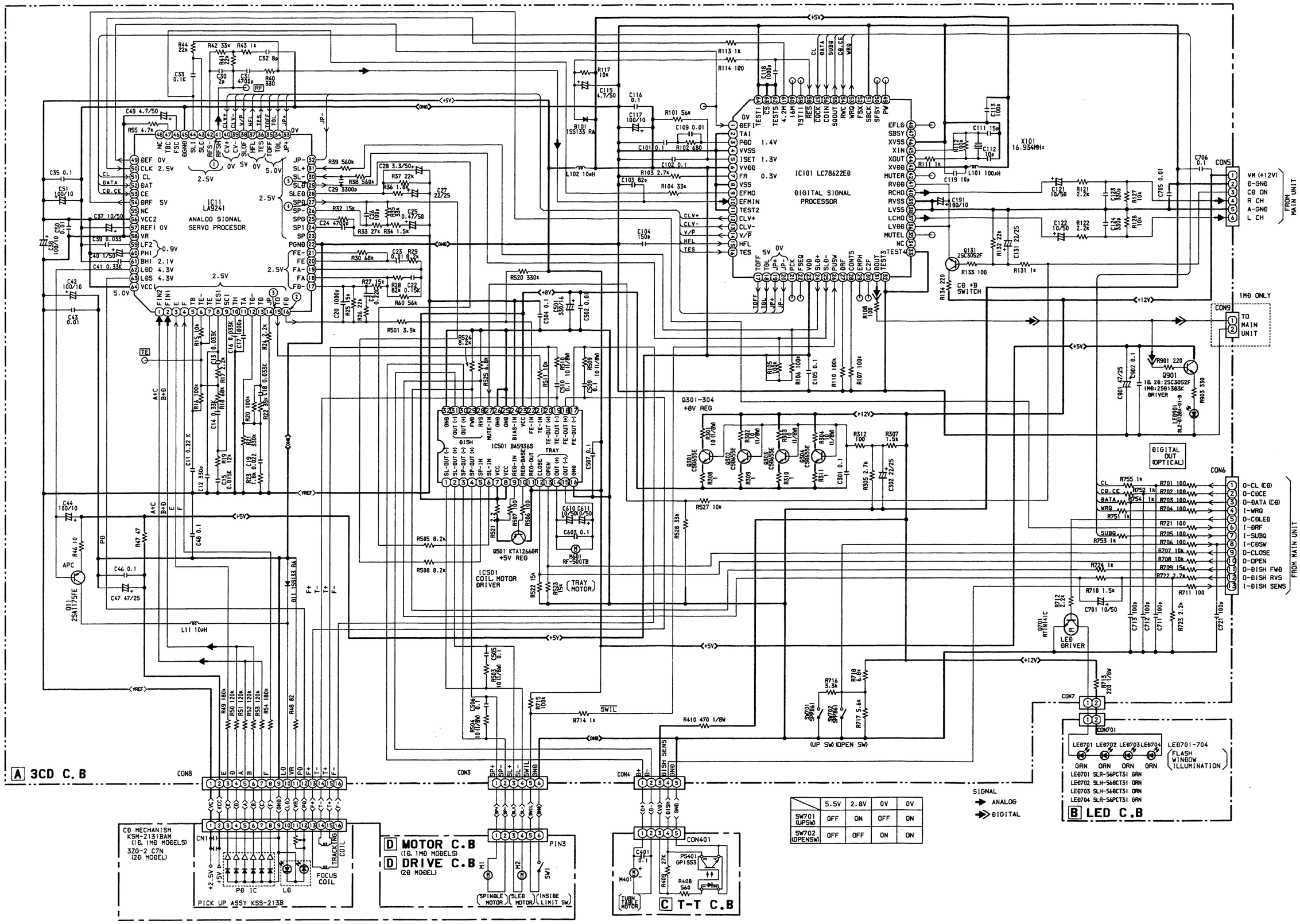


2SC3052
2SD1383
RT1N141C


MECHANISM ASSY
KSM-2131BAM
(1Ð, 1MÐ MODELS)
3ZG-2 C7N
(2Ð MODEL)
A 3CD C.B
Vref (+2.5V)
VÐÐ (+5V)
+2.5V
+5V
PÐIC
LÐ
FOCUS COIL
TRACKING COIL
PICK UP KSS-213B
CON8
CON9
TO MAIN UNIT
1MÐ ONLY
FROM MAIN UNIT
CON5
VM (+12V)
Ð-GNÐ
CÐ-ON
Rch OUT
A-GNÐ
Lch OUT
ÐIGITAL OUT (OPTICAL)
LEÐ901
Q901 Ð-OUT ÐRIVER
B+Ð
A+C
Q11 LÐ ÐRIVER
IC11
LA9241ML
CÐ ASP, SERVO
IC101
LC78622EÐ
CÐ ÐSP
Q131
CÐ +B SWITCH
XIN
XOUT
X101 16.9344MHz
M1 (SPINÐLE MOTOR)
M2 (SLEÐ MOTOR)
SW1 (INSIÐE LIMIT SW)
CON3
D MOTOR C.B
(1Ð, 1MÐ MODELS)
D DRIVE C.B
(2Ð MODEL)
Vref OUT (+2.5V)
Q301 ~ Q304
+8V REG
M601 (TRAY MOTOR)
VM (12V)
M401 (TURN TABLE MOTOR)
CON401
PS401 (PHOTO SENSOR)
CON4
C T-T C.B
TRACKING
SPINÐLE
FOCUS
SLEÐ
TRAY
ÐISH
Q501 +5V REG.
SW701 (UP SW)
SW702 (OPEN SW)
VM (+12V)
CON7
CON701
Q701 LEÐ SW
LEÐ704
LEÐ703
LEÐ702
LEÐ701
B LED C.B
CON6
O-CL (CÐ)
O-CÐ·CE
O-ÐATA (CÐ)
I-WRQ
O-CÐLEÐ
I-ÐRF
I-SUBQ
I-CÐSW
O-CLOSE
O-OPEN
O-ÐISH·FWÐ
O-ÐISH·RVS
I-ÐISH·SENS
FROM MAIN UNIT


2Ð MODEL
Ð DRIVE C.B
M1 (SPINÐLE MOTOR)
SW1 (INSIÐE LIMIT SWITCH)
M3
M2
M2 (SLEÐ MOTOR)
PIN3
FCS
1Ð, 1MÐ MODELS
Ð MOTOR C.B
M2 (SLEÐ MOTOR)
SW1 (INSIÐE LIMIT SW)
M1 (SPINÐLE MOTOR)
<BLK>
<ORG>
BLK
CON3
FROM MAIN UNIT
FC2
FC1
FC3
CN1
2Ð ONLY
1MÐ ONLY
M601 (TRAY LOADING MOTOR)
FC4
C T-T C.B
CON401
PS401
R409
R408
C403
(RED)
(BLK)
M401 (TURN TABLE MOTOR)
A 3CÐ C.B
FROM MAIN UNIT
1MÐ ONLY
LEÐ701-704 (FLASH WINÐOW LIGHTING)
(YEL)
(BLK)
LEÐ901 ÐIGITAL OUT (OPTICAL)
CON701
LEÐ704
B LEÐ C.B

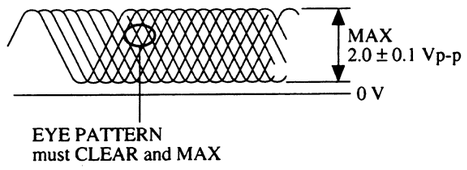
SCHEMATIC DIAGRAM



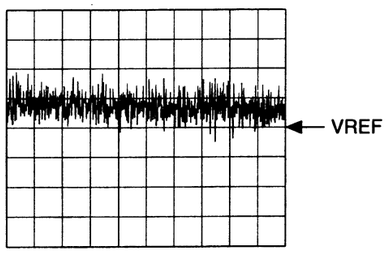
	5.5V	2.8V	0V	0V
SW701 (UPSW)	OFF	ON	OFF	ON
SW702 (OPENSW)	OFF	OFF	ON	ON

WAVE FORM

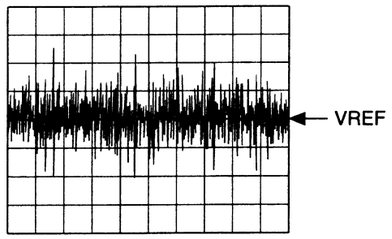
① IC11 Pin ㊶ (RFSM)　VOLT/DIV: 0.5V　TIME/DIV: 1μS



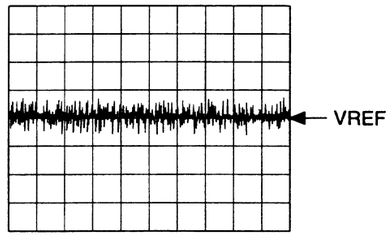
② IC11 Pin ⑯ (FD)　VOLT/DIV: 100mV　TIME/DIV: 1mS



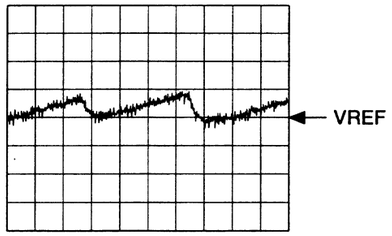
③ IC11 Pin ⑮ (TO)　VOLT/DIV: 100mV　TIME/DIV: 1mS



④ IC11 Pin ㉗ (SPD)　VOLT/DIV: 100mV　TIME/DIV: 1mS

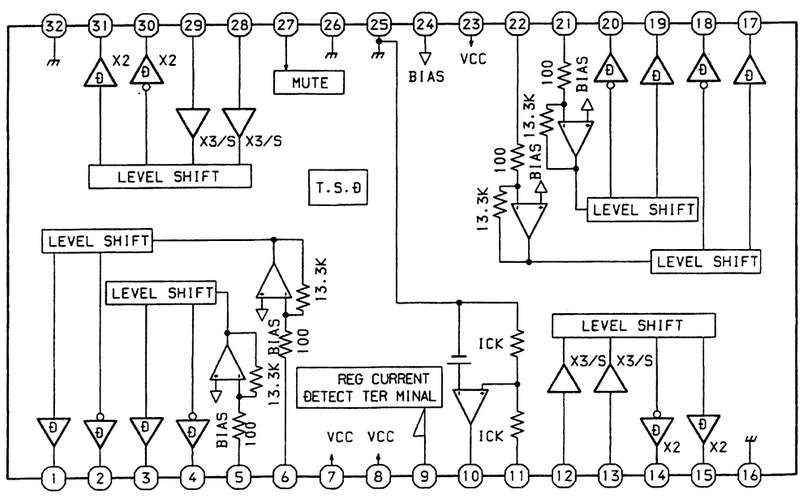


⑤ IC11 Pin ㉙ (SLD)　VOLT/DIV: 200mV　TIME/DIV: 2S



IC BLOCK DIAGRAM

IC, BA5936



IC DESCRIPTION

IC, LA9241M

端子番号	端子名称	I/O	機　能　説　明
1	FIN2	I	ピックアップのフォトダイオード接続用ピン。FIN1ピンとの加算でRF信号を生成し、減算でFE信号を生成する。
2	FIN1	I	ピックアップのフォトダイオード接続用ピン。
3	E	I	ピックアップのフォトダイオード接続用ピン。Fピンとの減算でTE信号を生成する。
4	F	I	ピックアップのフォトダイオード接続用ピン。
5	TB	I	TE信号のDC成分入力用ピン。
6	TE−	I	TE信号のゲイン設定用抵抗をTEピン間に接続するピン。
7	TE	O	TE信号出力ピン。
8	TESI	I	TES “Track Error Sence” コンパレータ入力ピン。TE信号をバンドパスし、入力する。
9	SCI	I	ショック検出用入力ピン。
10	TH	I	トラッキングゲイン時定数設定用ピン。
11	TA	O	TAアンプ出力ピン。
12	TD−	I	トラッキング位相補償定数をTD、VRピン間で構成するためのピン。
13	TD	I	トラッキング位相補償設定用ピン。
14	JP	I	トラッキングシャンプ信号 (キックパルス) 振幅設定用ピン。
15	TO	O	トラッキング制御信号出力ピン。
16	FD	O	フォーカシング制御信号出力ピン。
17	FD−	I	フォーカシング位相補償定数をFD、FAピン間で構成するためのピン。
18	FA	I	フォーカシング位相補償定数をFD−、FA−ピン間で構成するためのピン。
19	FA−	I	フォーカシング位相補償定数をFA、FEピン間で構成するためのピン。
20	FE	O	FE信号の出力ピン。
21	FE−	I	FE信号のゲイン設定用抵抗をFEピン間に接続するピン。
22	AGND	—	アナログ信号用GND。
23	NC	—	NO CONNECT
24	SP	O	CV+、CV−ピン入力信号のシングルエンド出力。
25	SPG	I	スピンドル12cmモード時ゲイン設定用抵抗接続ピン。
26	SP−	I	SPDピンとともにスピンドル位相補償定数接続用ピン。
27	SPD	O	スピンドル制御信号出力ピン。
28	SLEQ	I	スレッド位相補償定数接続用ピン。
29	SLD	O	スレッド制御信号出力ピン。
30、31	SL−、SL+	I	マイコンからのスレッド送り信号入力ピン。
32、33	JP−、JP+	I	DSPからのトラッキングジャンプ信号入力ピン。
34	TGL	I	DSPからのトラッキングゲインコントロール信号入力ピン。 TGL=「H」でゲインロー。
35	TOFF	I	DSPからのトラッキングオフコントロール信号入力ピン。 TOFF=「H」でオフ。
36	TES	O	TES信号をDSPへ出力するピン。
37	HFL	O	“High Frequency Level” は、メインビームの位置がビット上か、ミラー上かの判断に利用される。

端子番号	端子名称	I/O	機 能 説 明
38	SLOF	I	スレッドサーボオフコントロール入力ピン。
39、40	CV－、CV＋	I	DSPからのCLVエラー信号入力用ピン。
41	RFSM	O	RF出力ピン。
42	RFS－	I	RFSMピンとともにRFのゲイン設定およびEFM信号の3T補償定数設定用ピン。
43	SLC	O	“Slice Level Control”は、RF波形のDSPによるデータスライスのレベルを制御する出力ピン。
44	SLI	I	DSPによるデータスライスのレベルを制御するための入力ピン。
45	DGND	—	ディジタル系のGNDピン。
46	FSC	O	フォーカスサーチスムージングコンデンサ用出力ピン。
47	TBC	I	“Tracking Balance Control”EFバランス可変範囲用設定ピン。
48	NC	—	NO CONNECT
49	DEF	O	ディスクのディフェクト検出出力ピン。
50	CLK	I	基準クロック入力ピン。DSPの4.23MHzが入力される。
51	CL	I	マイコンコマンドクロック入力ピン。
52	DAT	I	マイコンコマンドデータ入力ピン。
53	CE	I	マイコンコマンドチップイネーブル入力ピン。
54	DRF	O	“Detect RF”RFレベル検出出力。
55	FSS	I	“Focus Serch Select”フォーカスサーチモード(基準電圧に対し±サーチ／＋サーチ)の切り換えピン。
56	VCC2	—	サーボ系、ディジタル系用VCCピン。
57	REFI	—	基準電圧用パスコン接続用ピン。
58	VR	O	基準電圧出力ピン。
59	LF2	I	ディスクのディフェクト検出時定数設定用ピン。
60	PH1	I	RF信号のピークホールド用コンデンサ接続用ピン。
61	BH1	I	RF信号のボトムホールド用コンデンサ接続用ピン。
62	LDD	O	APC回路出力ピン。
63	LDS	I	APC回路入力ピン。
64	VCC1	—	RF系VCCピン。

IC, LC78622E

端子番号	端子名称	I/O	機能説明	
1	DEFI	I	ディフェクト検出信号 (DEF) 入力端子。(未使用時、0Vに接続すること。)	
2	TAI	I	PLL用	テスト用入力端子。プルダウン抵抗内蔵。必ず0Vに接続すること。
3	PDO	O		外部VCO制御用位相比較出力端子。
4	VVSS	—		内蔵VCO用接地端子。必ず0Vに接続すること。
5	ISET	I		PDO出力の電流調整用抵抗接続端子。
6	VVDD	—		内蔵VCO用電源端子。
7	FR	I		VCO周波数レンジ調整用。
8	VSS	—	ディジタル系接地端子。必ず0Vに接続すること。	
9	EFMO	O	スライスレベルコントロール用	EFM信号出力端子。
10	EFMIN	I		EFM信号入力端子。
11	TEST2	I	テスト用入力端子。プルダウン抵抗内蔵。必ず0Vに接続すること。	
12、13	CLV+、CLK−	O	ディスクモータコントロール用出力。コマンドにより3値出力可能。	
14	V/$\overline{P}$	O	ラフサーボ／位相制御の自動切り換えモニタ出力端子。「H」でラフサーボ、「L」で位相サーボ。	
15	HFL	I	トラック検出信号入力端子。シュミット入力。	
16	TES	I	トラッキング誤差信号入力端子。シュミット入力。	
17	TOFF	O	トラッキングOFF出力端子。	
18	TGL	O	トラッキング・ゲイン切り換え用出力端子。「L」でゲインを上げる。	
19、20	JP+、JP−	O	トラックジャンプコントロール用出力。コマンドにより3値出力可能。	
21	PCK	O	EFMデータ再生用クロックモニタ端子。位相ロック時、4.3218MHz。	
22	FSEQ	O	同期信号検出出力端子。EFM信号から検出した同期信号と内部生成の同期信号が一致した時に「H」。	
23	VDD	—	ディジタル系電源端子。	
24～28	CONT1～CONT5	I/O	汎用入出力端子1～5	マイコンからのシリアルデータコマンドで制御。使用しない場合、入力端子に設定して0Vに接続するか出力端子に設定してオープンにすること。
29	EMPH	O	ディエンファシス・モニタ出力端子。「H」の時ディエンファシス・ディスク再生中。	
30	C2F	O	C2フラグ出力端子。	
31	DOUT	O	ディジタルOUT出力端子。(EIAJフォーマット)	
32、33	TEST3、TEST4	I	テスト用入力端子。プルダウン抵抗内蔵。必ず0Vに接続すること。	
34	N.C.	—	未使用端子。オープンで使用すること。	
35	MUTEL	O	Lチャネル1ビットDAC	Lチャネル用ミュート出力端子。
36	LVDD	—		Lチャネル用電源端子。
37	LCHO	O		Lチャネル出力端子。
38	LVSS	—		Lチャネル用接地端子。必ず0Vに接続すること。
39	RVSS	—	Rチャネル1ビットDAC	Rチャネル用接地端子。必ず0Vに接続すること。
40	RCHO	O		Rチャネル出力端子。
41	RVDD	—		Rチャネル用電源端子。
42	MUTER	O		Rチャネル用ミュート出力端子。
43	XVDD	—	水晶発振用電源端子。	

端子番号	端子名称	I/O	機 能 説 明
44	XOUT	O	16.9344MHz水晶振動子の接続端子。
45	XIN	I	
46	XVSS	—	水晶発振用接地端子。必ず0Vに接続すること。
47	SBSY	O	サブコードブロックの同期信号出力端子。
48	EFLG	O	C1、C2、1重、2重の訂正モニタ端子。
49	PW	O	サブコードP、Q、R、S、T、U、Wの出力端子。
50	SFSY	O	サブコードフレーム同期信号出力端子。サブコードがスタンバイした時、立下る。
51	SBCK	I	サブコード読み出しクロック入力端子。シュミット入力。(未使用時0Vに接続すること。)
52	FSX	O	水晶発振から分周した7.35kHz同期信号出力端子。
53	WRQ	O	サブコードQ出力スタンバイ出力端子。
54	RWC	I	リード／ライト制御入力端子。シュミット入力。
55	SQOUT	O	サブコードQ出力端子。
56	COIN	I	マイコンからのコマンド入力端子。
57	$\overline{\text{CQCK}}$	I	コマンド入力取り込みクロックまたはSQOUTからのサブコード取り出しクロック入力端子。シュミット入力。
58	$\overline{\text{RES}}$	I	LC78622リセット入力端子。電源投入時に、一旦「L」にする。
59	TST11	O	テスト用出力端子。オープン(通常「L」出力)で使用すること。
60	16M	O	16.9344MHz出力端子。
61	4.2M	O	4.2336MHz出力端子。
62	TEST5	I	テスト用入力端子。プルダウン抵抗内蔵。必ず0Vに接続すること。
63	$\overline{\text{CS}}$	I	チップセレクト入力端子。プルダウン抵抗内蔵。非制御時、0Vに接続すること。
64	TEST1	I	テスト用入力端子。プルダウン抵抗はない。必ず0Vに接続すること。

注) 各電源端子(VDD、VVDD、LVDD、RVDD、XVDD)には必ず同電位を供給すること。

IC, LA9241M

Pin No.	Pin Name	I/O	Description
1	FIN2	I	Pin to which external pickup photo diode is connected. RF signal is created by adding with the FIN1 pin signal. FE signal is created by subtracting from the FIN1 pin signal.
2	FIN1	I	Pin to which external pickup photo diode is connected.
3	E	I	Pin to which external pickup photo diode is connected. TE signal is created by subtracting from the F pin signal.
4	F	I	Pin to which external pickup photo diode is connected.
5	TB	I	DC component of the TE signal is input.
6	TE–	I	Pin to which external resistor setting the TE signal gain is connected between the TE pin.
7	TE	O	TE signal output pin.
8	TESI	I	TES "Track Error Sense" comparator input pin. TE signal is passed through a band-pass filter then input.
9	SCI	I	Shock detection signal input pin.
10	TH	I	Tracking gain time constant setting pin.
11	TA	O	TA amplifier output pin.
12	TD–	I	Pin to which external tracking phase compensation constants are connected between the TD and VR pins.
13	TD	I	Tracking phase compensation setting pin.
14	JP	I	Tracking jump signal (kick pulse) amplitude setting pin.
15	TO	O	Tracking control signal output pin.
16	FD	O	Focusing control signal output pin.
17	FD–	I	Pin to which external focusing phase compensation constants are connected between the FD and FA pins.
18	FA	I	Pin to which external focusing phase compensation constants are connected between the FD– and FA– pins.
19	FA–	I	Pin to which external focusing phase compensation constants are connected between the FA and FE pins.
20	FE	O	FE signal output pin.
21	FE–	I	Pin to which external FE signal gain setting resistor is connected between the FE pin.
22	AGND	—	Analog signal GND.
23	NC	—	No connection.
24	SP	O	Single ended output of the CV+ and CV– pin input signal.
25	SPG	I	Pin to which external spindle gain setting resistor in 12 cm mode is connected.
26	SP–	I	Pin to which external spindle phase compensation constants are connected together with SPD pin.
27	SPD	O	Spindle control signal output pin.
28	SLEQ	I	Pin to which external sled phase compensation constants are connected.
29	SLD	O	Sled control signal output pin.
30, 31	SL–, SL+	I	Sled advance signal input pin from microprocessor.
32, 33	JP–, JP+	I	Tracking jump signal input pin from DSP.
34	TGL	I	Tracking gain control signal input from DSP. Low gain when TGL = H.
35	TOFF	I	Tracking off control signal input pin from DSP. Off when TOFF = H.

Pin No.	Pin Name	I/O	Description
36	TES	O	Pin from which TES signal is output to DSP.
37	HFL	O	"High Frequency Level" is used to judge whether the main beam position is on top of bit or on top of mirror.
38	SLOF	I	Sled servo off control input pin.
39, 40	CV–, CV+	I	CLV error signal input pin from DSP.
41	RFSM	O	RF output pin.
42	RFS–	I	RF gain setting and EFM signal 3T compensation constant setting pin together with RFSM pin.
43	SLC	O	"Slice Level Control" is the output pin which controls the RF signal data slice level by DSP.
44	SLI	I	Input pin which control the data slice level by the DSP.
45	DGND	—	Digital system GND.
46	FSC	O	Output pin to which external focus search smoothing capacitor is connected.
47	TBC	I	"Tracking Balance Control" EF balance variable range setting pin.
48	NC	—	No connection.
49	DEF	O	Disc defect detector output pin.
50	CLK	I	Reference clock input pin. 4.23 MHz of the DSP is input.
51	CL	I	Microprocessor command clock input pin.
52	DAT	I	Microprocessor command data input pin.
53	CE	I	Microprocessor command chip enable input pin.
54	DRF	O	"Detect RF" RF level detector output.
55	FSS	I	"Focus Search Select" focus search mode (± search/+ search) select pin.
56	VCC2	—	Servo system and digital system Vcc pin.
57	REFI	—	Pin to which external bypass capacitor for reference voltage is connected.
58	VR	O	Reference voltage output pin.
59	LF2	I	Disc defect detector time constant setting pin.
60	PH1	I	Pin to which external capacitor for RF signal peak holding is connected.
61	BH1	I	Pin to which external capacitor for RF signal bottom holding is connected.
62	LDD	O	APC circuit output pin.
63	LDS	I	APC circuit input pin.
64	VCC1	—	RF system Vcc pin.

IC, LC78622E

Pin No.	Pin Name	I/O	Description	
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used).	
2	TAI	I	For PLL.	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
3	PDO	O		Phase comparator output pin to control external VCO.
4	VVSS	—		GND pin for built-in VCO. Be sure to connect to 0V.
5	ISET	I		Pin to which external resistor adjusting the PD0 output current.
6	VVDD	—		Power supply pin for built-in VCO.
7	FR	I		Pin for VCO frequency range adjustment.
8	VSS	—	Digital system GND. Be sure to connect to 0V.	
9	EFMO	O	For slice level control.	EFM signal output pin.
10	EFMIN	I		EFM signal input pin.
11	TEST2	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
12, 13	CLV+, CLK–	O	Disc motor control output. Three level output is possible using command.	
14	V/$\overline{P}$	O	Rough servo or phase control automatic selection monitoring output pin. Rough servo at H. Phase servo at L.	
15	HFL	I	Track detect signal input pin. Schmidt input.	
16	TES	I	Tracking error signal input pin. Schmidt input.	
17	TOFF	O	Tracking OFF output pin.	
18	TGL	O	Tracking gain selection output pin. Gain boost at L.	
19, 20	JP+, JP–	O	Track jump control signal output pin. Three level output is possible using command.	
21	PCK	O	EFM data playback clock monitoring pin 4.3218 MHz when phase is locked in.	
22	FSEQ	O	Sync signal detection output pin. H when the sync signal which is detected from EFM signal and thesync signal which is internally generated agree.	
23	VDD	—	Digital system power supply pin.	
24~28	CONT1~CONT5	I/O	General purpose input/output pin 1 to 5.	The pin is controlled by the serial data command from microprocessor. When the pin is not used, set the pin to the input terminal and connect to 0V, or alternately set the pin to output terminal and leave the pin open.
29	EMPH	O	De-emphasis monitor output pin. De-emphasis disc is being played back at H.	
30	C2F	O	C2 flag output pin.	
31	DOUT	O	DIGITAL OUT output pin. (EIAJ format).	
32, 33	TEST3, TEST4	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
34	N.C.	—	Not used. Set the pin to open.	
35	MUTEL	O	L-channel 1-bit DAC.	L-channel mute output pin.
36	LVDD	—		L-channel power supply pin.
37	LCHO	O		L-channel output pin.
38	LVSS	—		L-channel GND. Be sure to connect to 0V.
39	RVSS	—	R-channel 1-bit DAC.	R-channel GND. Be sure to connect to 0V.
40	RCHO	O		R-channel output pin.
41	RVDD	—		R-channel power supply pin.
42	MUTER	O		R-channel mute output pin.

Pin No.	Pin Name	I/O	Description
43	XVDD	—	Crystal oscillator power supply pin.
44	XOUT	O	Pin to which external 16.9344 MHz crystal oscillator is connected.
45	XIN	I	
46	XVSS	—	Crystal oscillator GND pin. Be sure to connect to 0V.
47	SBSY	O	Subcode block sync signal output pin.
48	EFLG	O	C1, C2, single and dual correction monitoring pin.
49	PW	O	Subcode P, Q, R, S, T, U and W output pin.
50	SFSY	O	Subcode frame sync signal output pin. Falls down when subcode enters standby.
51	SBCK	I	Subcode read clock input pin. Schmidt input. (Be sure to connected to 0V when not in use.)
52	FSX	O	Pin outputting the 7.35 kHz sync signal which is generated by dividing frequency of crystal oscillator.
53	WRQ	O	Subcode Q output standby output pin.
54	RWC	I	Read/write control input pin. Schmidt input.
55	SQOUT	O	Subcode Q output pin.
56	COIN	I	Command input pin from microprocessor.
57	$\overline{\text{CQCK}}$	I	Command input read clock or subcode read input clock from SQOUT pin
58	$\overline{\text{RES}}$	I	LC78622 reset input pin. Set this pin to L once when the main power is turned on.
59	TST11	O	Test signal output pin. Use this pin as open (normally L output).
60	16M	O	16.9344 MHz output pin.
61	4.2M	O	4.2336 MHz output pin.
62	TEST5	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
63	$\overline{\text{CS}}$	I	Chip select signal input pin with built-in pull-down resistor. Be sure to connect to 0V while it is not controlling.
64	TEST1	I	Test signal input pin without built-in pull-down resistor. Be sure to connect to 0V.

Note: The same potential must be applied to the respective power supply terminals. (VDD, VVDD, LVDD, RVDD, XVDD)

TEST MODE

1. CD テストモードの起動方法
   ファンクション CD の釦を押しながら、AC プラグを挿入する。
   上記により FL 表示管が全て点灯し、テストモードが起動します。

2. CD テストモードの解除方法
   下記のいずれか 1 つの操作で解除します。
   ・ ファンクション釦を押す (CD ファンクション釦以外)　・ パワー SW 釦を押す。
   ・ AC プラグを抜く。

3. CD テストモードの機能説明
   テストモード起動後、各操作釦を押す事により次の No1～No5 の各モード機能が使用できます。

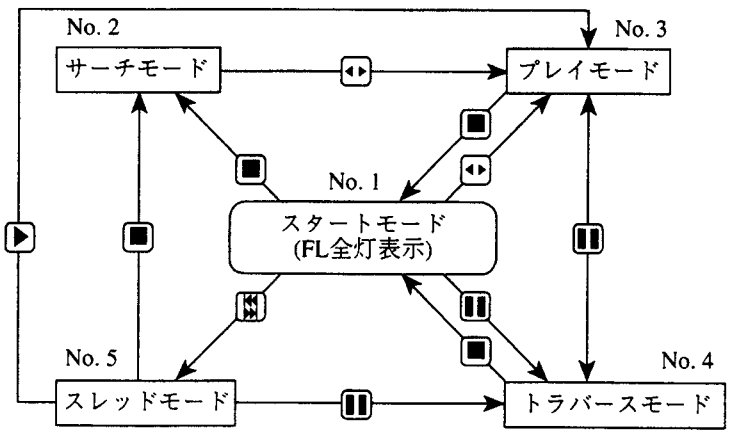
Mode/No.	操作	FL 表示	動作	内容
スタートモード No.1	起動	全灯表示	• TEST MODE 起動 • CD ブロック電源 ON	• FL 表示確認 (全灯)
サーチモード No.2	■ 釦	C1/--	• LASER DIODE 常時発光 • 連続フォーカスサーチ (PU レンズがフルスイングを繰り返す) * 10 分以上の連続フォーカスは避けて下さい。 *注 1	• APC 回路確認 • レーザー電流測定 (レーザー電流コントロール、トランジスタのエミッター GND 間の抵抗の両端。) FOCUS SERVO • フォーカスラッチ波形確認 • フォーカスエラー波形確認 (サーチモードでは FOK/FZC は監視せず。)
プレイモード No.3	◀▶ 釦	C1 1	• 通常再生 • TOC READ 出来ない場合 フォーカスサーチを続行 *注 1	FOCUS SERVO/TRACKING SERVO CLV SERVO/SLED SERVO DRF 確認
トラバース モード No.4	▮▮ 釦	C1 1	• DISC 通常再生中 1 回押す トラッキングサーボ OFF 2 回押す トラッキングサーボ ON *注 2	TRACKING SERVO ON/OFF トラッキングバランス (トラバース) 確認
スレッドモード No.5	⏮ 釦 ⏭	全灯表示	• ピックアップ外周へ移動 • ピックアップ内周へ移動 *注 3 (再生中は通常動作致します)	SLED SERVO SLED メカ動作確認

*注 1　フォーカスサーチを連続して 10 分以上動作し続けるとドライバー IC が発熱し保護回路が働く為、トラッキングサーボがかからない状態となる場合が有ります。この様な場合には、電源を切り約 10 分間放熱後、再スタートして下さい。

*注 2　「▮▮」状態で、「⏮」または「⏭」釦を押さない事。「▮▮」状態解除後、再生出来なくなります。「▮▮」状態で、「⏮」または「⏭」釦を押した場合には「■」釦を押しスタートモード (No.1) に戻して下さい。

*注 3　ピックアップが最内周、最外周の位置でも「⏮」または「⏭」釦を押している間はスレッドモータが回転する為、ギヤ破損に注意して下さい。

4. 操作概要
   下図の様にスタートモードから、矢印方向の流れで各モードの操作が行えます。モード変更は、下図の流れに従い行って下さい。



尚、DISC DIRECT PLAY 釦を押した場合には、上図の PLAY 釦を押した時と同様の動作となります。またプレイモード／トラバースモード時に open/close 釦により、トレイを open させた場合には、スタートモードに戻ります。

1. How to Activate CD Test Mode
   Insert the AC plug while pressing the function CD button.
   All FL display tubes will light up, and the test mode will be activated.

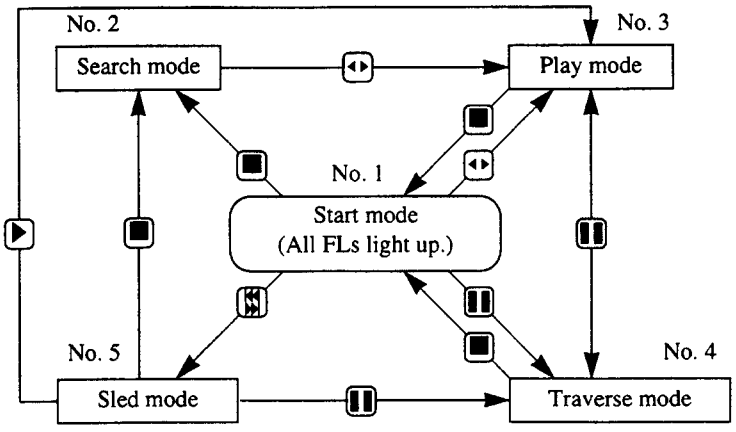
2. How to Cancel CD Test Mode
   Either one of the following operations will cancel the CD test mode.
   - Press the function button. (except CD function button)
   - Press the power switch button.
   - Disconnect the AC plug

3. CD Test Mode Functions
   When test mode is activated, the following mode functions from No.1 to No.5 can be used by pressing the operation keys.

Mode/No.	Operation	FL display	Operation	Contents
Start mode No.1	Activation	All lamps light	• Test mode is activated. • CD block power is ON.	• FL display check (All displays light.)
Search mode No.2	■ key	C1/--	• Laser diode turns always ON. • Continual focus search (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes. * NOTE 1	• APC circuit check • Laser current measurement (Laser current control. Across a resistor connected between emitter and GND.) FOCUS SERVO • Check focus search waveform • Check focus error waveform (FOK/FZC are not monitored in the search mode)
Play mode No.3	◀▶ key	C1/1	• Normal playback • Focus search is continued if TOC cannot be read. * NOTE 1	FOCUS SERVO/TRACKING SERVO CLV SERVO/SLED SERVO Check DRF
Traverse mode No.4	▮▮ key	C1/1	• During normal disc playback Press once; tracking servo OFF Press twice; tracking servo ON * NOTE 2	TRACKING SERVO ON/OFF Tracking balance (traverse) check
Sled mode No.5	⏮ key ⏭	All lamps light	• Pickup moves to the outermost track • Pickup moves to the innermost track * NOTE 3 (During playback, machine operates normally.)	SLED SERVO Check SLED mechanism operation

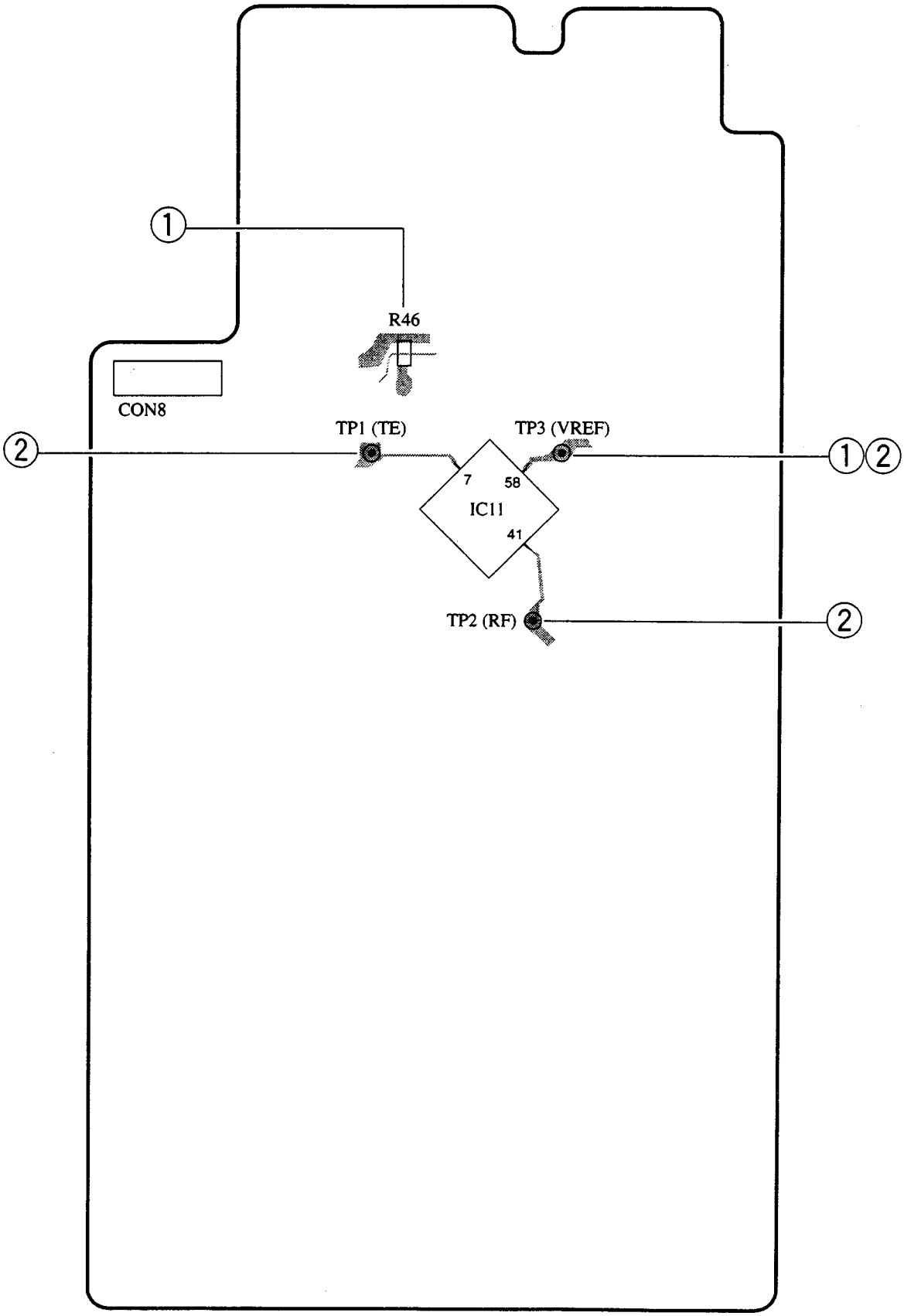
* NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.
* NOTE 2: Do not press the ⏮ or ⏭ keys when the machine is in the ▮▮ status is active. If they are pressed, playback will not be possible after the ▮▮ status has been canceled. If the ⏮ or ⏭ keys are pressed in the ▮▮ status, press the ■ key and return to the start mode (No.1).
* NOTE 3: When pressing the ⏮ or ⏭ keys, take care to avoid damage to the gears. Because the sled motor is activated when the ⏮ or ⏭ keys are pressed, even when the pick-up is at the outermost or innermost track.

4. Operation Outline
   The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.



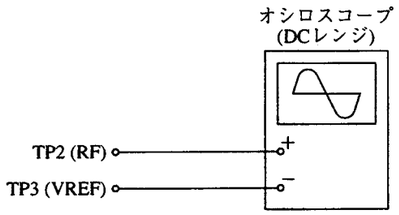
If the DISC DIRECT PLAY button is pressed, the machine performs the same operation as the PLAY button is pressed as shown. If the tray is opened by pressing OPEN/CLOSE button during Play mode or Traverse mode, the machine returns to the Start mode.

A 3CD C.B (PATTERN SIDE)

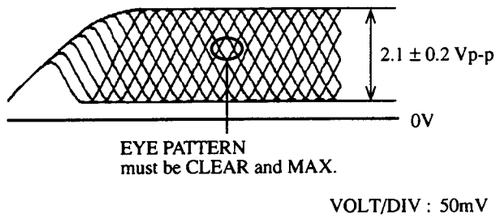


注意：・(10：1) のプローブを接続して、調整して下さい。
・各調整には、オシロスコープの⊖側を TP3 (VREF) に接続して下さい。

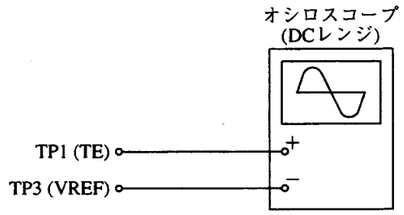
1. RF 波形の確認



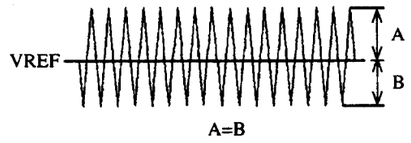
1) テストポイント TP2 (RF)、TP3 (VREF) にオシロスコープを接続する。
2) POWER スイッチを ON にする。
3) テストディスク TCD-782 (YEDS-18) を入れて 2 曲目を PLAY させる。
4) オシロスコープの波形の振幅が 2.1 Vp-p となり、かつ中央のひし形が、鮮明である事を確認する。



2. トラッキング・バランス確認



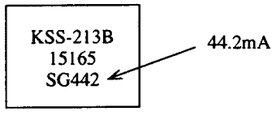
1) テストポイント TP1 (TE)、TP3 (VREF) にオシロスコープを接続する。
2) CD テストモードを起動する。
3) テストディスク TCD-782 (YEDS-18) を入れて、CD テストモードのトラバースモードにする。
4) オシロスコープのトラバース波形が、下図のように上下対称である事を確認する。
5) 確認後、CD テストモードを解除する。



VOLT/DIV : 20mV
TIME/DIV : 1mS

VOLT/DIV : 50mV
TIME/DIV : 0.5 μ S

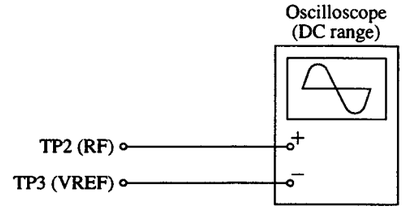
注意：レーザー電流の確認は R46 (10 Ω の両端電圧) で行えます。レーザーピックアップの裏側のラベルの電流値に対して ± 6.0mA に入っていること。



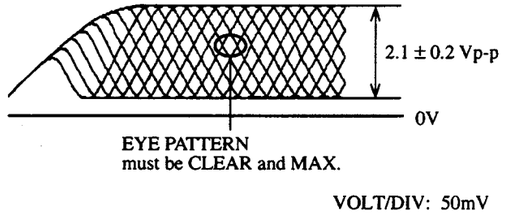
$$\text{レーザー電流Iop} = \frac{\text{R46の両端電圧}}{10\Omega}$$

Note:
- Connect a probe (10: 1) of the oscilloscope or the frequency counter to a test point.
- During adjustment, connect (⊖) pin of an oscilloscope to TP3 (VREF).

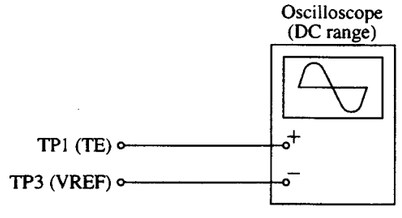
1. RF waveform Check



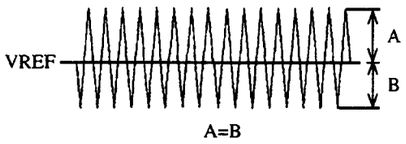
1) Connect an oscilloscope to test points TP2 (RF) and TP3 (VREF).
2) Turn on the power switch.
3) Insert test disc TCD-782 (YEDS-18) and play back the second program.
4) Confirm that the waveform at oscilloscope has amplitude of 2.1 Vp-p, and clear wedge area in its center.



2. Tracking Balance Check



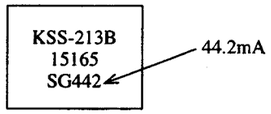
1) Connect an oscilloscope to test points TP1 (TE) and TP3 (VREF).
2) Start up the CD test mode.
3) Insert the test disc TCD-782(YEDS-18) and enter the traverse mode of the CD test mode.
4) Confirm that the traverse waveform on an oscilloscope is vertically symmetrical as shown in the figure below.
5) After confirming the waveform, release the CD test mode.



VOLT/DIV: 20mV
TIME/DIV: 1mS

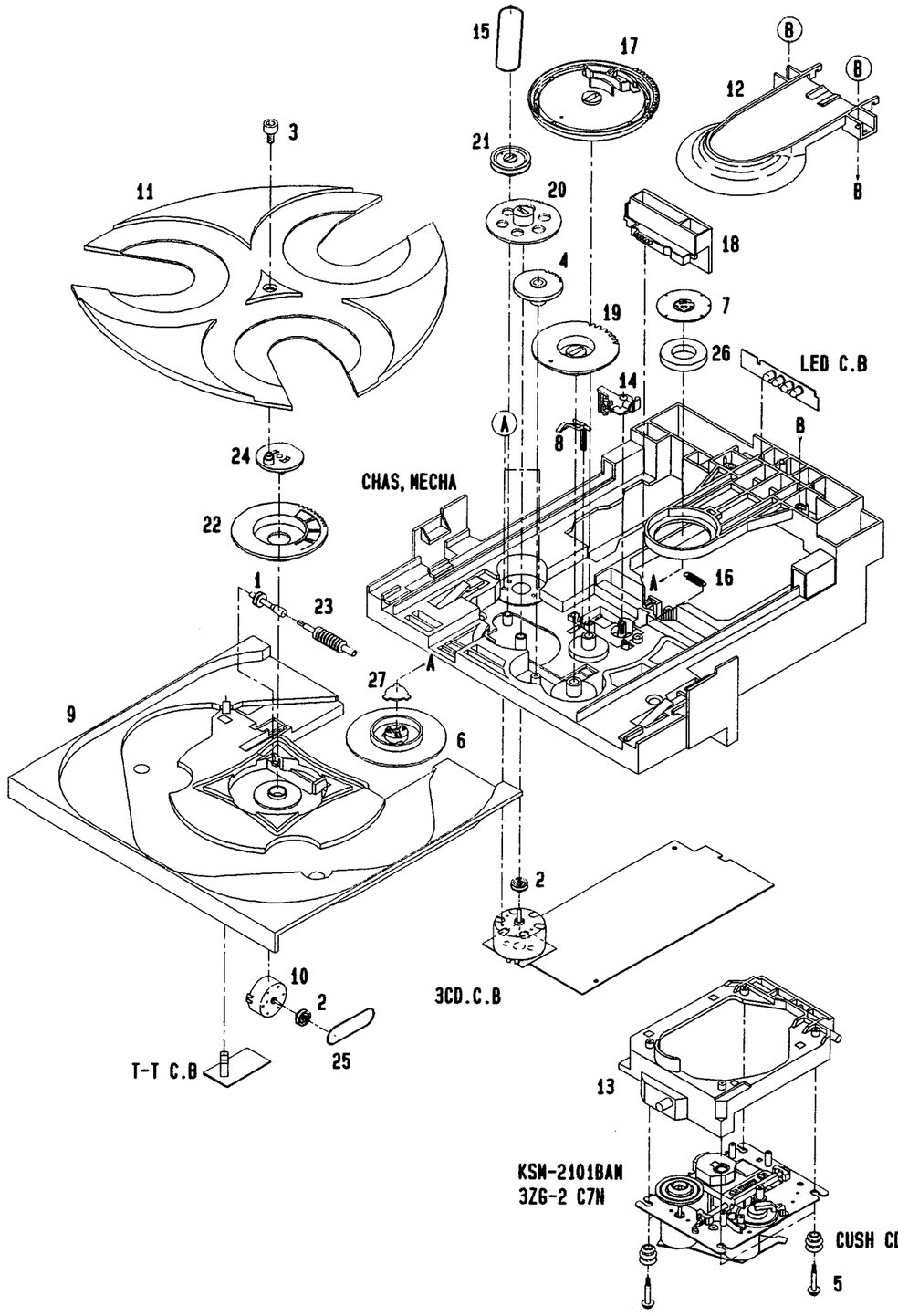
VOLT/DIV: 50mV
TIME/DIV: 0.5μS

Note: The current of the laser signal can be checked with the voltages on both sides of R46 (voltage across 10Ω). The difference for the specified value shown on the label must be within ± 6.0mA.



$$\text{Laser current Iop} = \frac{\text{Voltage across R46}}{10\Omega}$$

MECHANICAL EXPLODED VIEW 1／1

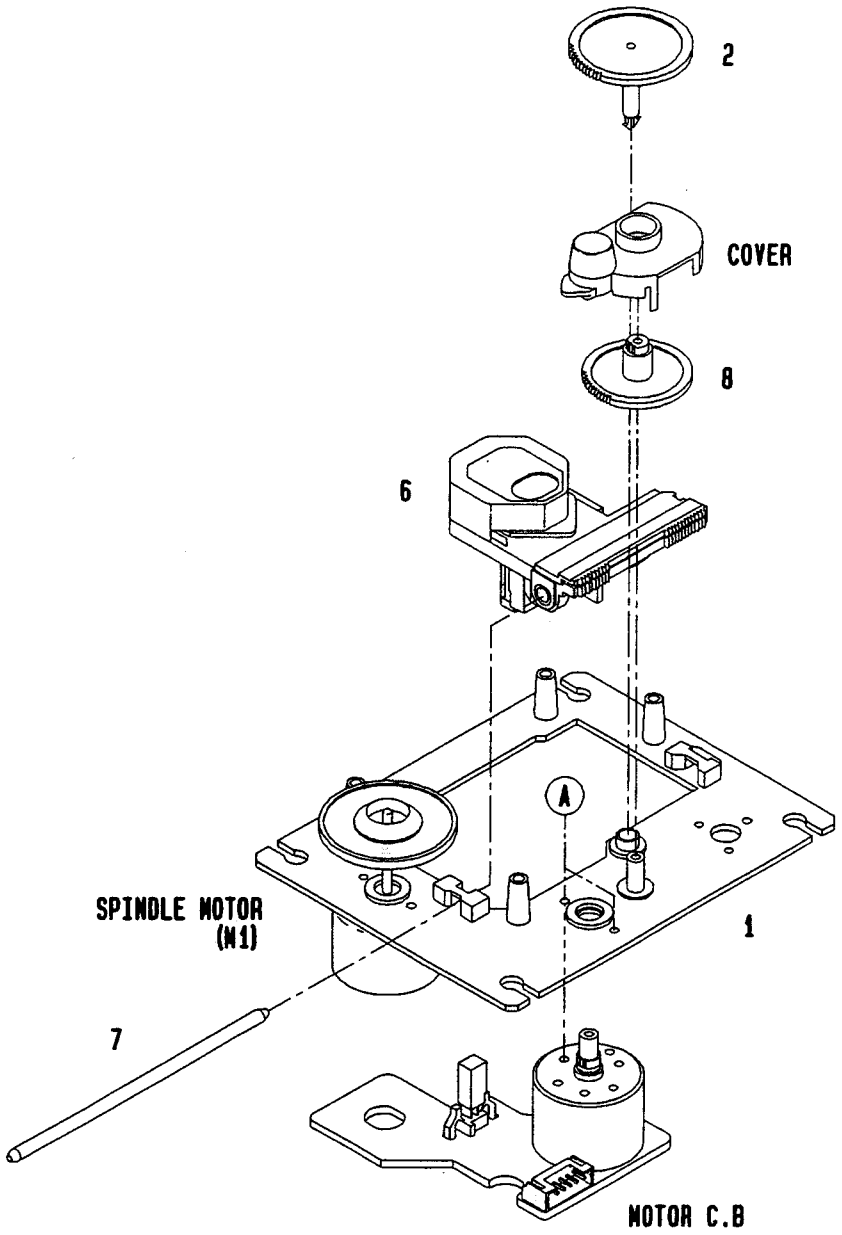


MECHANICAL PARTS LIST 1／1

DESCRIPTIONで判断できない物は “REFERENCE NAME LIST” を参照してください。
If can’t understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	84-ZG1-239-110	1A	PULLY,WORM N
2	81-ZG1-212-010	0E	PULLY,LOAD MO
3	81-ZG1-239-010	0E	S-SCREW,TT
4	81-ZG1-291-010	0E	GEAR,TRAY RELAY NO3
5	81-ZG1-271-010	0E	S-SCREW,MECH REAR
6	81-ZG1-277-210	1A	HLDR,MAGNET N
7	81-ZG1-229-110	0E	PLATE,MAGNET<1MD,1D>
7	81-ZG1-255-110	0E	PLATE,MAGNET MK2<1DM,2DM>
8	83-ZG3-213-010	0E	LVR,SW
9	84-ZG1-003-210	1M	TRAY,NO2-B
10	87-045-364-010	1D	MOTOR,(BCH3B14)
11	84-ZG1-005-110	1C	TURNTABLE,NO1
12	84-ZG1-011-010	1A	REFLECTOR,CD
13	84-ZG1-212-110	1A	HLDR,MECHA NO2
14	84-ZG1-208-010	0E	LEVER,CAM
15	84-ZG1-209-010	0E	BELT,SQ1.8-117.7
16	84-ZG1-211-010	0E	SPR-E CAM S
17	84-ZG1-215-210	1B	GEAR,MAIN CAM BLU
18	84-ZG1-216-210	1A	SLIDE,MECHA CAM YEL
19	84-ZG1-205-110	1A	GEAR,TRAY
20	84-ZG1-206-110	0E	GEAR,RELAY
21	84-ZG1-207-010	0E	PULLY,RELAY
22	84-ZG1-221-010	1A	GEAR,MAIN TT
23	84-ZG1-238-010	1A	GEAR,WORM N
24	84-ZG1-224-010	0E	LEVER,TT
25	84-ZG1-225-010	0E	BELT,SQ1.0-63.3
26	87-036-326-010	0E	MAGNET,CLAMPER 93<1MD,1D,1DM>
26	83-ZG3-602-010	0E	RING,MAG<2DM>
27	84-ZG1-248-010	0E	SPR-C,WORM
A	87-251-070-410	0E	U+2.6-3
B	87-067-703-010	0E	BVT 2+3-10 W/O SLOT

CD MECHANISM EXPLODED VIEW 1／1 (KSM-2131BAM <1D, 1MD>)

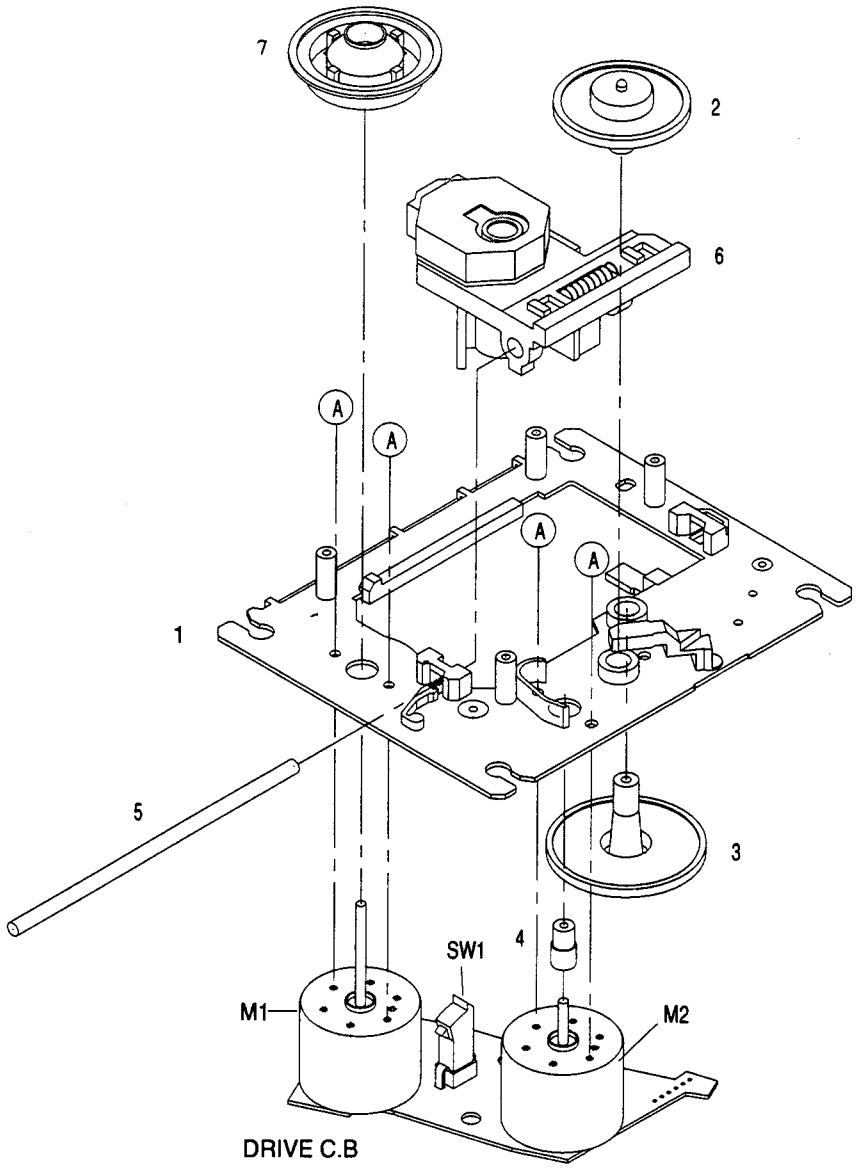


CD MECHANISM PARTS LIST 1／1 (KSM-2131BAM <1D, 1MD>)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	9X-262-587-110	--	MOTOR CHASSIS ASSY
2	92-626-907-010	--	GEAR(A)
6	98-848-379-310	--	OPTICAL PICK UP KSS-213B
7	92-626-908-010	2A	SHAFT SLED
8	92-627-003-010	--	GEAR B
A	97-621-255-150	0E	SCREW+P2-3

CD MECHANISM EXPLODED VIEW 1／1 (3ZG-2 C7N <2D>)



CD MECHANISM PARTS LIST 1／1 (3ZG-2 C7N <2D>)

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	83-ZG2-202-71K	1C	O-SERT S ASSY,S
2	83-ZG2-204-419	0E	GEAR,A
3	83-ZG2-205-219	0E	GEAR,B
4	83-ZG2-220-01K	0E	GEAR,MOTOR 2
5	83-ZG2-207-119	1A	SHAFT,SLIDE
6	87-070-445-010	2C	PICK-UP,KSS-213B
7	83-ZG2-233-019	1B	TURN TABLE,A5
A	87-261-032-219	0E	SCREW V+2-3

USE MODEL LIST

CX-NA92 (NSX-A92)
CX-NMT90 (NSX-MT90)
CX-NAV95 (NSX-AV95)
CX-NA71 (NSX-A71)
CX-NMT70 (NSX-MT70)
CX-NAV85 (NSX-AV85)
CX-NA50 (NSX-A50)
CX-NS50 (XG-S50)
CX-NA51 (NSX-A51)
CX-NS52 (NSX-S52)
CX-NMT50 (NSX-MT50)
CX-NAV75 (NSX-AV75)
CX-NK550 (NSX-K550)
CX-NH50 (XR-H5MD)
CX-NA30 (NSX-A30)
CX-NS30 (XG-S30/NSX-S30)
CX-NA31 (NSX-A31)
CX-NA34 (NSX-A34)
CX-NS33
CX-NS32
CX-NS35
CX-NA35
CX-NS36
CX-NAV65 (NSX-AV65)
CX-NAV66 (NSX-AV66)
CX-NH3MD (XR-H3MD)

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージサプレッサ	SERGESUPPRESSOR
セラコン	CAP,CERA

サービス技術ニュース	
番号	連絡内容
G — —	
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MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ジグアーム	ARM,SHAFT
ジグガイド	GUIDE,SHAFT
ストラップ	STRAP
トクナベ	S-SCREW
ヒンジ	HINGE
ヒンジビス	S-SCREW
ビスセレート	SCREW,SERRART

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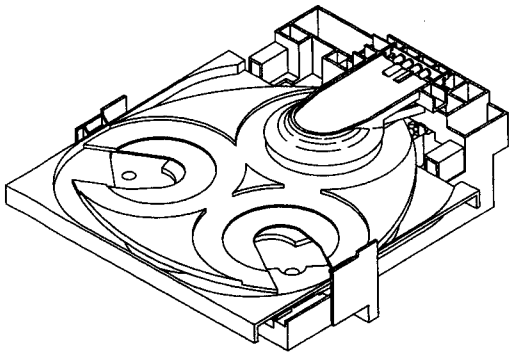
aiwa

aiwa SERVICE

4ZG-1Z



CD MECHANISM

• BASIC CD MECHANISM: KSM-2131 BAM / 3ZG-2 C7

• TYPE: English,Japanese

SERVICE MANUAL

CORRECTION

BASIC NAME	DERIVATION NAME					
4ZG-1Z	1D	2D	1MD	—	—	—

■ This Service Manual is replaces "CORRECT Manual"(S/M Code No.09-973-187-50T).

■ 本体マニュアルは(S/M Code No.09-973-187-50T)の訂正版です。

S/M Code No. 09-984-270-60T

■ “このサービスマニュアルにはCDメカニズムの説明は含まれていません。CDメカニズムについては4ZG-1 (S/M Code No.....) のマニュアルを参照して下さい。” の別冊マニュアルの使用文のS/M Code Noに誤りがあります。

(正) 09-973-187-50T ← (誤) 09-974-187-50T

下記の機種の別冊メカニズムは09-973-187-50Tを使用又は取得をして下さい。

■ “The CD mechanism description is not included in this Service Manual. Refer to 4ZG-1 (S/M Code No. .....) for description of CD mechanism.” Please correct the S/M Code No. as shown below as there was mistake in the description of separate manual.

(Correct) 09-973-187-50T ← (Error) 09-974-187-50T

Please obtain and use the separate manual using the Code No. 09-973-187-50T.

1. 09-978-216-8FE (NSX-S50)
2. 09-978-220-4FE (NSX-AV75)
3. 09-978-195-5FP (NSX-AV96)
4. 09-978-220-3FE (NSX-AV75)
5. 09-973-182-5FP (NSX-A71/S70/S74)

6. 09-975-193-5FP (NSX-S70/S74)
7. 09-974-181-9FP (NSX-A92/A94/S90/S94)
8. 09-974-160-3FE (NSX-A30/A31/S33)
9. 09-976-181-6FE (NSX-AV65/AV66)
10. 09-976-186-6FP (NSX-MT70/MT75/AV85)

11. 09-976-207-0FP (NSX-A72/A74)
12. 09-977-190-4FP (NSX-S90)
13. 09-976-181-5FE (NSX-S30/S32/S33/S35/S36)
14. 09-977-202-7FE (NSX-S22/A22)
15. 09-976-188-4FE (NSX-AV75/NMT50/NMT55)

16. 09-977-181-7FP (NSX-AV95)
17. 09-978-206-6FP (NSX-AV85)
18. 09-978-215-8FE (NSX-S22/S23/XG-S22)
19. 09-978-220-2FE (NSX-S52)
20. 09-977-212-8FE (XG-550/NSX-S52)

21. 09-978-181-4FE (NSX-S32/S33/S36/S37)
22. 09-978-213-4FP (NSX-S74)
23. 09-979-222-5FE (NSX-S22)
24. 09-979-214-1FP (NSX-S94/S95)
25. 09-979-219-1FP (NSX-S90)

26. 09-979-225-2FE (NSX-A66)
27. 09-97A-222-7FE (NSX-S38)

お詫び

09-983-257-90Tで発行したCORRECTIONの表現方法は誤解を生じる為、廃棄して下さい。

Notice

Please discard the CORRECTION issued under 09-983-257-90T in order to avoid the expression which can cause misleading.

サービス技術ニュース	
番号	連絡内容
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